



Product catalogue



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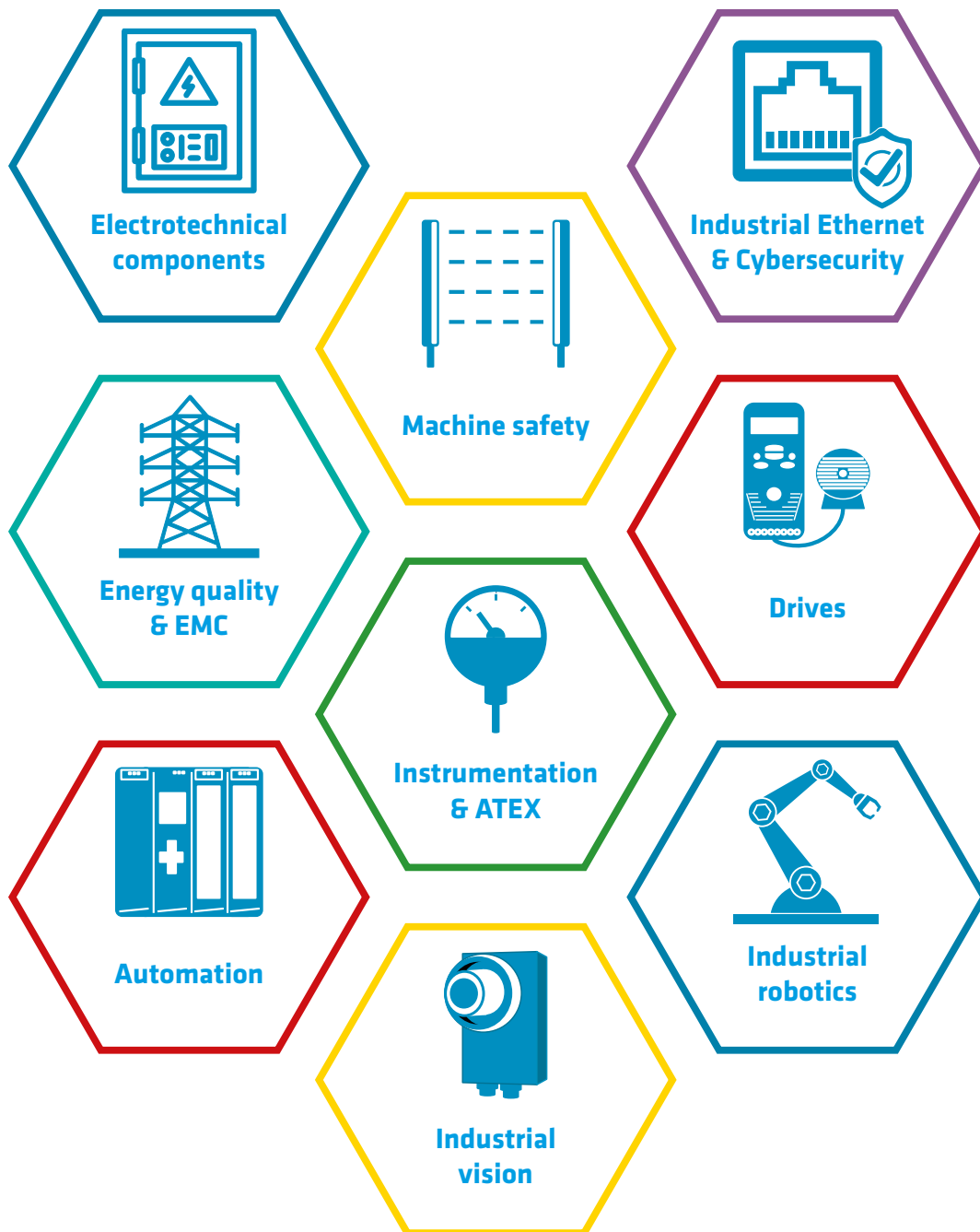
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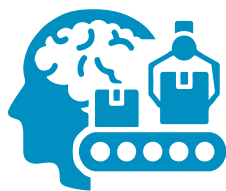
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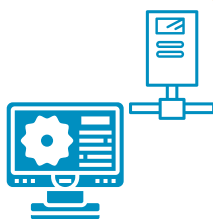
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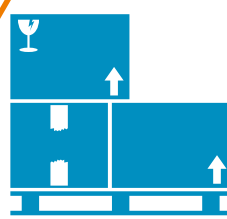
Skills, technical and logistical resources



Skills



Technical resources



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Integrators
Panel builders



End users
Factories



Aeronautics



Food industry



Energy



Industry



Automotive



Military



Petrochemical



Pharmaceutical



Transport

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CABINETS AND ENCLOSURES

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Based on a product in stock, we can deliver a personalised product ready to fit within a short time frame.

**Possibilities:**

Routine cut-outs (round, square, rectangular, etc.), tapping (plates), and certain pre-defined shapes (e.g. Harting-type connectors).

Simply tell us what shape you need, the size and general position of the cut-outs (on door, side, etc.) and the quantity.

You can also send us a drawing (DXF, DWG) or a sketch.

If you are unable to provide us with a drawing in digital format, we can produce this for you.

**Limitations:**

The smallest radius possible for angles is 3 mm.

No cut-outs with 90° angles.



Select your model from all the dimensions in our standard offer.

(91 enclosures, 52 one-piece cabinets, 65 cells)



Tell us what cut-outs you need and their position (door, side, roof, plate, cable entry plate, etc.)



Obtain the corresponding costing and lead time from your usual sales agency.



Place your order with your usual contact. Your personalised product ready to be installed will be sent directly to you.

ARIA series

Fibreglass-reinforced polyester wall-mounted enclosure - IP66 (IP54 with glazed door) - IK08 (IK07 with glazed door) - RAL7035
 3-point locking system with a single operating point
 Operating temperature: -25 to +70°C (+130°C peak)
 Insulation voltage $U_i=1000$ VAC and 1500 VDC
 Self-extinguishing (GWT 960°C, UL HB), and halogen-free

Dimensions H x W x D	Enclosure		Mounting plate		Internal door	
	Solid door	Glazed door	Solid galvanised	Perforated	Front panel	Hinges
315 x 215 x 170	4TBA831025C0100	-	4TBA831026C0100	4TBA831332C0100	4TBA831028C0100	4TBA831010C0100
415 x 315 x 170	4TBA831036C0100	4TBA831815C0100	4TBA831037C0100	4TBA831333C0100	4TBA831036C0100	4TBA831010C0100
515 x 415 x 230	4TBA831052C0100	4TBA831129C0100	4TBA831053C0100	4TBA831334C0100	4TBA831055C0100	4TBA831010C0100
615 x 415 x 230	4TBA831065C0100	4TBA831130C0100	4TBA831066C0100	4TBA831335C0100	4TBA831068C0100	4TBA831010C0100
735 x 535 x 270	4TBA831081C0100	4TBA831131C0100	4TBA831082C0100	4TBA831336C0100	4TBA831084C0100	4TBA831010C0100
835 x 635 x 300	4TBA831098C0100	4TBA831132C0100	4TBA831099C0100	4TBA831337C0100	4TBA831101C0100	4TBA831010C0100
1035 x 835 x 300	4TBA831112C0100	4TBA831133C0100	4TBA831113C0100	4TBA831338C0100	4TBA831115C0100	4TBA831010C0100

Accessories:

Description	Reference
4 304 stainless steel wall-mounting brackets	4TBA831000C0100
4 polyamide fastening brackets	4TBA831001C0100
1242e key lock (2 keys)	4TBA831180R0100
0455e key lock (2 keys)	4TBA831153C0100
Handle with no key	4TBA831003R0100

**BRES series**

Wall-mounted enclosure - IP66 - IK10
 Colour RAL 7035
 Self-extinguishing 960°C, double insulation
 Operating temperature: -30 to +60°C



Dimensions H x W x D	Enclosure		Mounting plate			Internal door (polyester)
	Solid door	Door with window	Solid galvanised door	Insulating	Perforated	
300 x 250 x 140	SFBBRES325	SFBBRES325P	SFBPBM325	SFBPBP325	SFB9801348E	
400 x 300 x 200	SFBBRES43	SFBBRES43P	SFBPBM43	SFBPBP43	SFB9801338E	SFBPUI43
400 x 400 x 200	SFBBRES44	SFBBRES44P	SFBPBM44	SFBPBP44	SFB9801349E	SFBPUI44
500 x 400 x 200	SFBBRES54	SFBBRES54P	SFBPBM54	SFBPBP54	SFB9801345E	SFBPUI54
600 x 400 x 230	SFBBRES64	SFBBRES64P	SFBPBM64	SFBPBP64	SFB9801346E	SFBPUI64
600 x 500 x 230	SFBBRES65	SFBBRES65P	SFBPBM65	SFBPBP65	SFB9801351E	SFBPUI65
800 x 300 x 230	SFBBRES83	SFBBRES83P	SFBPBM83	SFBPBP83	-	SFBPUI83
800 x 600 x 300	SFBBRES86	SFBBRES86P	SFBPBM86	SFBPBP86	SFB9801347E	SFBPUI86

Accessories:

Description	Reference
Polyamide wall-mounting brackets (4 parts)	SFBB00FM14
Plastic DIN 3 mm lock	SFBCDB10
ZB padlocking system	SFBCBC13
Stainless steel padlocking system	SFBCBC13IN
Small vent Ø19 mm IP33	SFBBODVM
Large vent Ø29 mm IP44	SFBBODVG



TEMPO range

Enclosure, IP65, IK07, RAL 7035

Delivered with a quick-fit hinge kit and 4 self-tapping mounting screws. Effective dimensions and distances between centres of fastening points compatible with the market standards. Several wall-mounting options. Completely flat cover for screen printing, adhesive labels, etc. Sealing system included in the cover.

Empty enclosures Smooth or pre-cut surfaces

Dim. (W x H x D)	ABS enclosure with grey cover		Polycarbonate enclosure		Mounting plate
	Smooth surfaces	Pre-cut entries	Grey cover	Transp. cover	
96 x 65 x 60	FIB5814038	FIB5814020	FIB5824038	-	
110 x 110 x 65	FIB5814039	FIB5814021	FIB5824039	-	
130 x 95 x 65	FIB5814040	FIB5814022	FIB5824040	-	
130 x 130 x 75	FIB5814041	FIB5814023	FIB5824041	-	
187 x 122 x 90	FIB5814000	FIB5814024	FIB5824000	FIB5824005	FIB5518022
187 x 122 x 134	FIB5814050	FIB5814062	-	-	FIB5518022
201 x 163 x 98	FIB5814001	FIB5814025	FIB5824001	FIB5824006	FIB5518023
201 x 163 x 142	FIB5814051		-	-	FIB5518023
240 x 191 x 107	FIB5814002		FIB5824002	FIB5824007	FIB5518024
240 x 191 x 151	FIB5814052		-	-	FIB5518024
289 x 239 x 107	FIB5814003		FIB5824003	FIB5824008	FIB5518025
289 x 239 x 151	FIB5814053		-	-	FIB5518025
344 x 289 x 117	FIB5814004		FIB5824004	FIB5824009	FIB5518026
344 x 289 x 161	FIB5814054		-	-	FIB5518026
Fastening brackets (set of 2)		FIB5510674			

MNX range

Junction boxes - IP67 - IK08 - RAL 7035 - Operating temperature: -40 / +120°C

Glow wire test: 960°C - Self-extinguishing: UL94-5V, V0 - Halogen-free

UV resistance: UL508, 720 hours in environmental test chamber

Excellent resistance to chemical agents, oils, hydrocarbons, alcohol, acid, salt spray, etc.



Dimensions			POLYCARBONATE reference		
W	H	D	Grey cover	Transp. cover	Mounting plate
100	100	35	FIB6012331	FIB6012931	FIB5514583
		50	FIB6012332	FIB6012932	FIB5514583
		60	FIB6011331		FIB5514583
		75	FIB6011332		FIB5514583
130	80	35	FIB6012301	FIB6012901	FIB5514076
		50	FIB6012302	FIB6012902	FIB5514076
		60	FIB6011301	FIB6011901	FIB5514076
		75	FIB6011302	FIB6011902	FIB5514076
		100	FIB6011303		FIB5514076
		125	FIB6011304		FIB5514076
	130	35	FIB6012307	FIB6012907	FIB5514077
		50	FIB6012308		FIB5514077
		60	FIB6011307	FIB6011907	FIB5514077
		75	FIB6011308	FIB6011908	FIB5514077
		100	FIB6011309	FIB6011909	FIB5514077
		125	FIB6011310	FIB6011910	FIB5514077

Dimensions			POLYCARBONATE reference		
W	H	D	Grey cover	Transp. cover	Mounting plate
180	130	35	FIB6012313	FIB6012913	FIB5514078
		50	FIB6012314	FIB6012914	FIB5514078
		60	FIB6011313	FIB6011913	FIB5514078
		75	FIB6011314	FIB6011914	FIB5514078
		85	FIB6013333		FIB5514078
		100	FIB6013334		FIB5514078
		100	FIB6011315	FIB6011915	FIB5514078
	180	125	FIB6011316		FIB5514078
		150	FIB6011317	FIB6011917	FIB5514078
		60	FIB6011319	FIB6011919	FIB5514079
		75	FIB6011320	FIB6011920	FIB5514079
		100	FIB6011321		FIB5514079
		125	FIB6011322		FIB5514079
		150	FIB6011323	FIB6011923	FIB5514079
255	180	63	FIB6011324	FIB6011924	FIB5514080
		75	FIB6011326	FIB6011926	FIB5514080
		88	FIB6013330	FIB6013930	FIB5514080
		100	FIB6013326		FIB5514080
		100	FIB6011327	FIB6011927	FIB5514080
		125	FIB6013327	FIB6013927	FIB5514080
		150	FIB6011329	FIB6011929	FIB5514080
		175	FIB6013329	FIB6013929	FIB5514080
360	255	152	FIB6017338	FIB6017938	FIB5514585

Also available in ABS (IP67 - IK07).

Many additional accessories - Contact us.

PICCOLO range

Junction boxes. ABS: IP66/67 - IK07; PC: IP66/67 - IK08.

Includes: base with mounting screws, cover with polyurethane seal and polyamide screws.

Enclosure with opaque RAL 7035 grey cover.



Dimensions	Polycarbonate	ABS	Mounting plate
110 x 80 x 65	FIB8724303	FIB8784303	FIB8524060
110 x 80 x 85	FIB8724304	FIB8784304	FIB8524060
140 x 80 x 65	FIB8724305	FIB8784305	FIB8524061
140 x 80 x 85	FIB8724306	FIB8784306	FIB8524061
170 x 80 x 65	FIB8724307	FIB8784307	FIB8524062
170 x 80 x 85	FIB8724308	FIB8784308	FIB8524062

Dimensions	Polycarbonate	ABS	Mounting plate
230 x 80 x 65	FIB8724311	FIB8784311	FIB8524063
230 x 80 x 85	FIB8724312	FIB8784312	FIB8524063
170 x 140 x 95	FIB8724315	FIB8784315	FIB8524064
230 x 140 x 95	FIB8724318	FIB8784318	FIB8524065
230 x 140 x 125	FIB8724319	FIB8784319	FIB8524065

Also available with transparent cover - Contact us.

EURONORD range

Polycarbonate junction boxes. IP66/67 - IK08/07

Enclosure with opaque RAL 7035 grey cover

160 standardised sizes, optimised effective internal space.

Includes: base with mounting screws, cover with polyurethane seal and stainless steel screws.

Dimensions	Reference	Mounting plate
52 x 40 x 40	FIB7032500	FIB9512009
65 x 50 x 45	FIB7032520	FIB9512010
82 x 80 x 55	FIB7032540	FIB9512011
82 x 80 x 65	FIB7032560	FIB9512011
82 x 80 x 95	FIB7032570	FIB9512011
120 x 80 x 55	FIB7032580	FIB9512012
120 x 120 x 90	FIB7032770	FIB9512015
160 x 80 x 55	FIB7032630	FIB9512013
160 x 80 x 65	FIB7032620	FIB9512013
160 x 80 x 85	FIB7032650	FIB9512013
160 x 80 x 95	FIB7032640	FIB9512013
122 x 120 x 65	FIB7032660	FIB9512014
122 x 120 x 75	FIB7032670	FIB9512014
122 x 120 x 95	FIB7032680	FIB9512014

Dimensions	Reference	Mounting plate
160 x 120 x 90	FIB7032720	FIB9512036
160 x 120 x 140	FIB7032730	FIB9512036
200 x 120 x 75	FIB7032760	FIB9512015
244 x 124 x 102	FIB7032780	FIB9512016
201 x 151 x 80	FIB7032820	FIB9512017
244 x 164 x 90	FIB7032810	FIB9512022
244 x 164 x 120	FIB7032830	FIB9512022
250 x 160 x 90	FIB7032840	FIB9512018
250 x 160 x 125	FIB7032860	FIB9512018
300 x 230 x 87	FIB7032870	FIB9512019
300 x 230 x 110	FIB7032890	FIB9512019
340 x 150 x 110	FIB7032700	FIB9512021



Also available in ABS or polyester.

The polycarbonate versions are also available with transparent covers.

SOLID range

Enclosure, IP67, IK08, RAL 7035.

The SOLID range is ideal for all types of electrical or electronic equipment. It is also an economical alternative to polyester enclosures.

Also available in ABS or polycarbonate. Screwed or hinged cover.

External dimensions (mm)	ABS	Polycarbonate		Mounting plate	Extension frame
	Grey cover	Grey cover	Transparent cover		
190 x 190 x 130	FIB5880359	FIB5330359	FIB5330059	FIB3770548	-
190 x 190 x 180	-	FIB5330369	FIB5330069	FIB3770548	-
280 x 190 x 130	FIB5880360	FIB5330360	FIB5330060	FIB3770549	FIB3730153
280 x 190 x 180	-	FIB5330370	FIB5330070	FIB3770549	FIB3730153
280 x 280 x 130	FIB5880362	FIB5330362	FIB5330062	FIB3770551	FIB3730093
280 x 280 x 180	FIB5880372	FIB5330372	FIB5330072	FIB3770551	FIB3730093
380 x 190 x 130	FIB5880361	FIB5330361	FIB5330061	FIB3770550	FIB3730152
380 x 190 x 180	-	FIB5330371	FIB5330071	FIB3770550	FIB3730152
380 x 280 x 130	FIB5880363	FIB5330363	FIB5330063	FIB3770552	FIB3730141
380 x 280 x 180	FIB5880373	FIB5330373	FIB5330073	FIB3770552	FIB3730141
560 x 280 x 130	-	FIB5330364	FIB5330064	FIB3770553	FIB3730142
560 x 380 x 180	-	FIB5330365	FIB5330065	FIB3770554	FIB3730323



NEO range (IOT compatible)

Polycarbonate or ABS enclosure - Hinged cover + stainless steel 1/4 turn locking screw.
Integrated rain protection - IP66/IP67 - IK09 (polycarbonate) IK08 (ABS) - polyurethane seal.

Ideal enclosure for industrial control, IoT or home automation applications.
Excellent resistance to harsh environments.



Dimensions (H x W x D)	PC enclosure with cover		ABS enclosure with cover	Mounting plate		Post-mounting kit
	Opaque	Transp. Smoked	Opaque	Solid galvanised	ABS X perforated	
320 x 220 x 150	FIB4810000	FIB4811000	FIB4812000	FIB4850060	FIB4850070	FIB4850050
320 x 320 x 150	FIB4810001	FIB4811001	FIB4812001	FIB4850061	FIB4850071	FIB4850051
420 x 320 x 150	FIB4810002	FIB4811002	FIB4812002	FIB4850062	FIB4850072	FIB4850051

4 polycarbonate wall-mounting brackets: FIB4850001

New sizes and accessories are planned: Contact us

ARCA range

Fibreglass-reinforced polycarbonate wall-mounted enclosure, UV resistant.

IP66 - IK10 - Colour RAL 7035

Glow wire test (IEC 695-2-1): 960 °C



Dimensions (H x W x D)	Enclosure with plate	Mounting plate		Modular frame	Internal metal door	Post-mounting kit
		Perforated	Multi-perforated			
300 x 200 x 150	FIB8120002	FIB8120751	FIB8120920	FIB8120760	FIB8120711	FIB8120840
300 x 300 x 210	FIB8120005	FIB8120752	FIB8120921	FIB8120763	FIB8120712	FIB8120841
400 x 300 x 150	FIB8120006	FIB8120753	FIB8120922	FIB8120764	FIB8120713	FIB8120841
400 x 300 x 210	FIB8120007	FIB8120753	FIB8120922	FIB8120765	FIB8120713	FIB8120841
400 x 400 x 210	FIB8120009	FIB8120754	FIB8120923	FIB8120767	FIB8120714	FIB8120842
500 x 400 x 210	FIB8120011	FIB8120755	FIB8120924	FIB8120769	FIB8120715	FIB8120842
500 x 500 x 210	FIB8120032	FIB8120750	FIB8120929	FIB8120778	FIB8120710	FIB8120843
600 x 400 x 210	FIB8120012	FIB8120756	FIB8120925	FIB8120770	FIB8120716	FIB8120842
700 x 500 x 300	FIB8120017	FIB8120758	FIB8120927	FIB8120775	FIB8120718	FIB8120843
800 x 600 x 300	FIB8120019	FIB8120759	FIB8120928	FIB8120777	FIB8120719	FIB8120844

Also available with glazed door. Other dimensions are also available, in particular with dimensions reversed. Contact us.

Accessories:

	Set of 4 wall-mounting brackets				Lock		
	10 mm offset		40 mm offset	50 mm offset	1242e key	0455e key	DIN3mm
	Steel	Plastic	Steel	Plastic			
Enclosure ≤ 600 x 400	FIB8120830	FIB8120832	FIB8120831	FIB8120833	FIB8120865	FIB8120867	FIB8120860
Enclosure ≥ 700 x 500	FIB8120904	FIB8120834	FIB8120905	FIB8120835	FIB8120985	FIB8120987	FIB8120980

STB: RAL 7035 painted sheet metal**SSTB: 304L stainless steel** (316L possible on request)

Screwed cover - IP66 - NEMA4X - IK08 - Solid frame or rails to be ordered separately.

Dimensions (mm)			Enclosure reference		Galvanised steel solid door	Perforated vertical rails (2 parts)	Set of 5 horizontal DIN rails
H	W	D	RAL 7035 paint	304L stainless steel			
150	150	80	HOFSTB151508	HOFSSSTB151508	HOFBMP1515	HOFBPP15	HOFBDR3515
		120	HOFSTB151512	HOFSSSTB151512	HOFBMP1515	HOFBPP15	HOFBDR3515
	300	80	HOFSTB153008	HOFSSSTB153008	HOFBMP1530	HOFBPP15	HOFBDR3530
		120	HOFSTB153012	HOFSSSTB153012	HOFBMP1530	HOFBPP15	HOFBDR3530
200	200	80	HOFSTB202008	HOFSSSTB202008	HOFBMP2020	HOFBPP20	HOFBDR3520
		120	HOFSTB202012	HOFSSSTB202012	HOFBMP2020	HOFBPP20	HOFBDR3520
	300	80	HOFSTB203008	HOFSSSTB203008	HOFBMP2030	HOFBPP20	HOFBDR3530
		120	HOFSTB203012	HOFSSSTB203012	HOFBMP2030	HOFBPP20	HOFBDR3530
	400	80	HOFSTB204008	HOFSSSTB204008	HOFBMP2040	HOFBPP20	HOFBDR3540
		120	HOFSTB204012	HOFSSSTB204012	HOFBMP2040	HOFBPP20	HOFBDR3540
	500	120	HOFSTB205012	HOFSSSTB205012	HOFBMP2050	HOFBPP20	HOFBDR3550
	600	120	HOFSTB206012	HOFSSSTB206012	HOFBMP2060	HOFBPP20	HOFBDR3560
300	300	80	HOFSTB303008	HOFSSSTB303008	HOFBMP3030	HOFBPP30	HOFBDR3530
		120	HOFSTB303012	HOFSSSTB303012	HOFBMP3030	HOFBPP30	HOFBDR3530
	400	120	HOFSTB304012	HOFSSSTB304012	HOFBMP3040	HOFBPP30	HOFBDR3540
	500	120	HOFSTB305012	HOFSSSTB305012	HOFBMP3050	HOFBPP30	HOFBDR3550
	600	120	HOFSTB306012	HOFSSSTB306012	HOFBMP3060	HOFBPP30	HOFBDR3560
	800	120	HOFSTB308012	HOFSSSTB308012	HOFBMP3080	HOFBPP30	HOFBDR3580
400	400	120	HOFSTB404012	HOFSSSTB404012	HOFBMP4040	HOFBPP40	HOFBDR3540
	600	120	HOFSTB406012	HOFSSSTB406012	HOFBMP4060	HOFBPP40	HOFBDR3560
	800	120	HOFSTB408012	HOFSSSTB408012	HOFBMP4080	HOFBPP40	HOFBDR3580



STB



SSTB

Accessories:

Hinges (set of 2):

Zinc-plated steel: HOFSTBH02

316L stainless steel: HOFSSSTBH02

Fastening brackets (set of 4):

Zinc-plated steel: HOFAW41

304 stainless steel: HOFAWS41-304

316 stainless steel: HOFAWS41-316

CA - Painted aluminium connection boxes

Moulded aluminium connection boxes, RAL 7001 paint

Screwed cover - IP66 / 67 with PUR seal - IK08

Mounting plate, rails, fastening brackets to be ordered separately.

Dimensions (mm)			Enclosure reference	Mounting plate
W	H	D		
50	45	30	BER1020000000	----
58	64	36	BER1060000000	BER9511001000
98	64	36	BER1080000000	BER9511002000
150	64	36	BER1100000000	BER9511003000
75	80	57	BER1130000000	BER9823015000
75	80	57	BER1140000000	BER9511004000
125	80	57	BER1150000000	BER9823016000
125	80	57	BER1160000000	BER9823016000
175	80	57	BER1170000000	BER9823017000
250	80	57	BER1190000000	BER9823021000
122	122	80	BER1210000000	BER9511150000
220	122	80	BER1230000000	BER9511095000
360	122	80	BER1250000000	BER9511174000
160	160	90	BER1270000000	BER9511149000
260	160	90	BER1290000000	BER9511096000
360	160	90	BER1310000000	BER9511175000
560	160	90	BER1330000000	BER9511014000
200	230	110	BER1350000000	BER9511015000
280	230	110	BER1370000000	BER9511016000
330	230	180	BER1390000000	BER9511017000



Other dimensions -> 600 x 310 x 180 available on request - Contact us
 Machining possible on request - Contact us.

MAS series

Steel wall-mounted enclosure, RAL 7035 paint, one door, IP66, IK10

Solid frame delivered with the enclosure.

Perforated or multi-perforated frame to be ordered separately.

Cable entry plate(s) and seal(s) included. DIN 3 mm lock



Dimensions (mm)			Cabinet reference	Frame		Cable entry plate		Nbr. locks
H	W	D		Perforated	Multi-perforated	Nbr.	Size	
200	200	155	HOFMAS0202015R5	-	-	1	0S	1
250	200	155	HOFMAS0252015R5	-	-	1	0S	1
	250	155	HOFMAS0252515R5	-	HOFAMX02525	1	0S	1
300	250	155	HOFMAS0302515R5	HOFAMT03025	HOFAMX03025	1	0S	1
		210	HOFMAS0302521R5			1	0S	1
	300	155	HOFMAS0303015R5	HOFAMT03030	HOFAMX03030	1	1S	1
		210	HOFMAS0303021R5			1	1	1
	400	210	HOFMAS0304021R5	-	-	1	2	1
		210	HOFMAS0304021R5	-	-	1	2	1
350	250	155	HOFMAS0352515R5	-	-	1	0S	1
400	300	155	HOFMAS0403015R5	HOFAMT04030	HOFAMX04030	1	1S	1
		210	HOFMAS0403021R5			1	1	1
	400	210	HOFMAS0404021R5	HOFAMT04040	HOFAMX04040	1	2	1
	500	210	HOFMAS0405021R5	HOFAMT04050	HOFAMX04050	1	3	1
	600	210	HOFMAS0406021R5	HOFAMT04060	HOFAMX04060	1	4	1
500	300	210	HOFMAS0503021R5	HOFAMT05030	HOFAMX05030	1	1	1
		210	HOFMAS0503021R5			1	1	1
	400	155	HOFMAS0504015R5	HOFAMT05040	HOFAMX05040	1	2S	1
		210	HOFMAS0504021R5			1	2	1
		260	HOFMAS0504026R5			1	2	1
		300	HOFMAS0504030R5			1	2	1
	500	210	HOFMAS0505021R5	HOFAMT05050	HOFAMX05050	1	3	1
		300	HOFMAS0505030R5			1	3	1
600	400	155	HOFMAS0604015R5	HOFAMT06040	HOFAMX06040	1	2S	2
		210	HOFMAS0604021R5			1	2	2
		260	HOFMAS0604026R5			1	2	2
		300	HOFMAS0604030R5			1	2	2
	500	155	HOFMAS0605015R5	HOFAMT06050	HOFAMX06050	1	3S	2
		210	HOFMAS0605021R5			1	3	2
		260	HOFMAS0605026R5			1	3	2
		300	HOFMAS0605030R5			1	3	2
	600	210	HOFMAS0606021R5	HOFAMT06060	HOFAMX06060	1	4	2
		300	HOFMAS0606030R5			1	4	2
		400	HOFMAS0606040R5			1	4	2
		400	HOFMAS0606040R5			1	4	2
	800	300	HOFMAS0608030R5	HOFAMT06080	HOFAMX06080	2	2	2
700	500	210	HOFMAS0705021R5	HOFAMT07050	HOFAMX07050	1	3	2
		260	HOFMAS0705026R5			1	3	2
	400	300	HOFMAS0804030R5	-	-	1	2	2
800	600	210	HOFMAS0806021R5	HOFAMT08060	HOFAMX08060	1	4	2
		260	HOFMAS0806026R5			1	4	2
		300	HOFMAS0806030R5			1	4	2
		400	HOFMAS0806040R5			1	4	2
	800	210	HOFMAS0808021R5	HOFAMT08080	HOFAMX08080	2	2	2
		300	HOFMAS0808030R5			2	2	2
		400	HOFMAS0808040R5			2	2	2
		400	HOFMAS0808040R5			2	2	2
1000	600	260	HOFMAS1006026R5	HOFAMT10060	HOFAMX10060	1	4	1*
		300	HOFMAS1006030R5			1	4	1*
	800	260	HOFMAS1008026R5	HOFAMT10080	HOFAMX10080	2	2	1*
		300	HOFMAS1008030R5			2	2	1*
		400	HOFMAS1008040R5			2	2	1*
1200	600	300	HOFMAS1206030R5	HOFAMT12060	-	1	4	1*
	800	300	HOFMAS1208030R5	HOFAMT12080	HOFAMX12080	2	2	1*
		400	HOFMAS1208040R5			2	2	1*

*: 3-point lock.

MAD series

Steel wall-mounted enclosure - RAL 7035 paint - 2 doors - IP55 - IK10.

Solid frame delivered with the enclosure.

Perforated or multi-perforated frame to be ordered separately.

Cable entry plates and seals included. DIN 3 mm lock



Dimensions (mm)			Cabinet reference	Frame		Cable entry plates	
H	W	D		Perforated	Multi-perforated	Nbr.	Size
600	800	300	HOFMAD0608030R5	HOFAMT06080	HOFAMX06080	2	2
800	1200	300	HOFMAD0801230R5	HOFAMT08120	HOFAMX08120	2	4
1000	1000	300	HOFMAD1001030R5	HOFAMT10100	HOFAMX10100	2	3
1200	1000	300	HOFMAD1201030R5	HOFAMT12100	HOFAMX12100*	2	3
1200	1200	300	HOFMAD1201230R5	HOFAMT12120*	HOFAMX12120*	2	4
1200	1200	400	HOFMAD1201240R5	HOFAMT12120*	HOFAMX12120*	2	4
1400	1000	300	HOFMAD1401030R5	-	-	2	3

* These references are not regularly stocked - Contact us

**MAP series**

Steel wall-mounted enclosure - RAL 7035 paint - 1 door - IP66 - IK10.

Enclosure delivered equipped with its solid galvanised steel frame and its door stop.

Cable entries at top and bottom. Cable entry plates and seals to be ordered separately.

Can be mounted above or below an MAS or MAD enclosure of the same width and depth



Dimensions (mm)			Cabinet reference	Cable entry plates		Seal
H	W	D		Nbr.	Ref.	Ref.
300	600	300	HOFMAP0306030R5	2	HOFAF04R5	HOFAG04
300	800	300	HOFMAP0308030R5	4	HOFAF02R5	HOFAG02
300	1000	300	HOFMAP0310030R5	4	HOFAF03R5	HOFAG03
300	1200	300	HOFMAP0312030R5	4	HOFAF04R5	HOFAG04

**Bases for enclosures in the MULTIMOUNT range**

RAL 7022 painted steel

For enclosure		H100 base	H200 base
W	D		
400	260	HOFPA1040+HOFPA1026	HOFPA2040+HOFPA2026
	300	HOFPA1040+HOFPA1030	HOFPA2040+HOFPA2030
500	260	HOFPA1050+HOFPA1026	HOFPA2050+HOFPA2026
	300	HOFPA1050+HOFPA1030	HOFPA2050+HOFPA2030
600	260	HOFPA1060+HOFPA1026	HOFPA2060+HOFPA2026
	300	HOFPA1060+HOFPA1030	HOFPA2060+HOFPA2030
	400	HOFPA1060+HOFPA1040	HOFPA2060+HOFPA2040

For enclosure		H100 base	H200 base
W	D		
800	260	HOFPA1080+HOFPA1026	HOFPA2080+HOFPA2026
	300	HOFPA1080+HOFPA1030	HOFPA2080+HOFPA2030
	400	HOFPA1080+HOFPA1040	HOFPA2080+HOFPA2040
1000	300	HOFPA1100+HOFPA1030	HOFPA2100+HOFPA2030
1200	300	HOFPA1120+HOFPA1030	HOFPA2120+HOFPA2030
	400	HOFPA1120+HOFPA1040	HOFPA2120+HOFPA2040

Miscellaneous accessories

Designation	Reference
Spare DIN 3 mm lock	HOFALL503N
Handle with key	key No.0455e
Handle with key	key No.1242e
EMK1000-U347-0455E	
EMK1000-U347-1242E	
Brackets for wall-mounting (set of 4)	HOFAW41
Lifting rings (pair)	HOFAL9301
A4 adh. drawing pocket	HOFDRA04
Door contact + fastening bracket	HOFADSW01
4 W LED lighting strip - 230 VAC	HOFTL4001-4W
9 W LED lighting strip - 230 VAC	HOFTL4001-9W
FLL pres. detect. LED lighting strip 230 VAC	FANFLL230565US
Magnetic mount for FFL lighting	FANFLL2MA

Legs for MULTIMOUNT enclosures

Painted steel - RAL 7035

Height	For enclosure D=	Reference
300	300	HOFPPF330R5
300	400	HOFPPF430R5
450	300	HOFPPF345R5
450	400	HOFPPF445R5

Other types of locks possible. Contact us



PFF

Stainless steel wall-mounted enclosures**ASR: Single door - IP66/NEMA 4X****ADR: Double door - IP55 / NEMA 12-13**

Enclosures equipped with a solid galvanised frame.

304L stainless steel (316L stainless steel possible on request). Brushed finish, 240S grain.



EAC UK
CA

Dimensions (mm)			Reference	Nbr of locks
H	W	D		
180	240	150	HOFASR0182415	1
240	240	150	HOFASR0242415	1
240	360	150	HOFASR0243615	1
300	200	150	HOFASR0302015	1
360	240	150	HOFASR0362415	1
400	300	150	HOFASR0403015	1
400	300	210	HOFASR0403021	1
400	400	210	HOFASR0404021	1
400	600	210	HOFASR0406021	1
500	400	210	HOFASR0504021	1
500	500	210	HOFASR0505021	1
600	400	210	HOFASR0604021	2
600	600	210	HOFASR0606021	2

Dimensions (mm)			Reference	Nbr of locks
H	W	D		
600	600	300	HOFASR0606030	2
600	800	300	HOFASR0608030	2
800	600	210	HOFASR0806021	2
800	600	300	HOFASR0806030	2
800	800	300	HOFASR0808030	2
1000	600	300	HOFASR1006030	1 (*)
1000	800	300	HOFASR1008030	1 (*)
1000	1000	300	HOFADR1001030	1 (*)
1000	1200	300	HOFADR1001230	1 (*)
1200	600	300	HOFASR1206030	1 (*)
1200	800	300	HOFASR1208030	1 (*)
1200	800	400	HOFASR1208040	1 (*)
1400	800	400	HOFASR1408040	1 (*)



ASR

1(*) 3-point lock

Fastening brackets: 304 stainless steel: HOFAWS41-304 - 316 stainless steel: HOFAWS41-316

Stainless steel wall-mounted enclosures with integrated roof**AFS: Single door - IP66 / NEMA 4X**

Enclosures equipped with a solid galvanised frame.

304L stainless steel (316L possible on request)



EAC UK
CA

Dimensions (mm)			Reference	Nbr of locks
H	W	D		
300	200	150	HOFAFS03021	1
400	300	150	HOFAFS04031	1
400	400	210	HOFAFS04042	1
400	600	210	HOFAFS04062	1
500	500	210	HOFAFS05052	1
600	400	210	HOFAFS06042	2
600	600	210	HOFAFS06062	2
600	600	300	HOFAFS06063	2
600	800	300	HOFAFS06083	2

Dimensions (mm)			Reference	Nbr of locks
H	W	D		
800	600	210	HOFAFS08062	2
800	600	300	HOFAFS08063	2
800	800	300	HOFAFS08083	2
1000	800	300	HOFAFS10083	3
1200	600	300	HOFAFS12063	3
1200	800	300	HOFAFS12083	3
1200	800	400	HOFAFS12084	3
1400	800	400	HOFAFS14084	3



AFS

Spare hygienic design lock: EMK1000-U838-01

Key corresponding to the hygienic design lock: EMK1004-53

Stainless steel wall-mounted enclosures - "Hygiene" range**Specially designed for the food industry****HDW: Single door - IP66/69K - NEMA 4X**

Enclosures equipped with a solid galvanised frame.

304L stainless steel (316L possible on request) brushed finish, polish Ra < 0.8 µ

Special "hygienic" lock DIN EN 1672-2:2009, reversible door

Blue removable silicone seal - according to standard FDA 21 CFR 177.2600

Roof with 30° slope, 30 mm overhang



HDW

Dimensions (mm)			Reference	Nbr of locks
H	W	D		
442/350	220	155	HOFHDW0442215	2
552/430	390	210	HOFHDW0553921	2
605/430	610	300	HOFHDW0606130	2
672/550	510	210	HOFHDW0675121	2

Dimensions (mm)			Reference	Nbr of locks
H	W	D		
772/650	390	210	HOFHDW0773921	2
772/650	610	210	HOFHDW0776121	2
1225/1050	810	300	HOFHDW1228130	3
1425/1250	810	300	HOFHDW1428130	3

Wall-mounting bracket (1 part): H = 50 mm: HOFAWHD050

H = 300 mm: HOFAWHD300

Stainless steel levelling feet (4 parts): HOFLEFHD04

Door switch HOFHDSW01

Cable entry plates with knockouts

Painted sheet metal - RAL 7035

Size	Reference	Description
1	HOFAFK11R5	4M16 + 5M20 + 2M25 + 2M32
2	HOFAFK21R5	9M16 + 5M20 + 4M25 + 2M32
3	HOFAFK31R5	18M16 + 5M20 + 4M25 + 2M32
4	HOFAFK41R5	27M16 + 5M20 + 4M25 + 2M32
4	HOFAFK42R5	18M16 + 14M20 + 3M25 + 1M32



AFK

EPDM cable glands

IP66 - RAL 7035.

Size	Reference	Capacity
M16	TST1458304	5 to 9 mm
M20	TST1458305	8 to 13 mm
M25	TST1458306	11 to 17 mm
M32	TST1458307	15 to 20 mm
M40	TST1458308	19 to 28 mm
M50	TST1458309	27 to 35 mm

**Two-component cable grommet with cable retention**

RAL 7035 - Mounting on wall, thickness 2 to 5 mm

Size	Reference	Capacity
M20	TST1475803	7 to 11 mm
M25	TST1475804	7 to 13 mm

**Multi-entry flexible cable entry plate (plate and flange to be ordered separately).**

Metal cable entry plate - RAL 7035		
Size	Reference	Description
1	HOFAFA01R5	1 opening FL13
2	HOFAFA02R5	1 opening FL21
3	HOFAFA03R5	1 opening FL21
4	HOFAFA04R5	2 openings FL21



AFA



FIB

Membrane flange - IP65 - RAL 7035 grey		
Size	Reference	Description
FL13	FIB3590794	8 openings for Ø2.5 to 25 mm + 1 RJ45
FL21	FIB3590795	7 openings for Ø3 to 55 mm
FL21	FIB3590796	29 openings for Ø3 to 26 mm + 1 RJ45
FL21	FIB3590797	43 openings for Ø3 to 30 mm + 1 RJ45

“Design-a-Flange” Modular membrane plate, to design yourself

Based on an FL21 format frame, add the cable entry inserts of your choice.

This plate can be reconfigured. The frame is mounted on HOFFMAN HOFAFAXx plates

Frame	Reference
Frame: FL21 RAL 7035 Capacity: 5 modules	TST2665400

Inserts		
Description	Nbr of modules	Reference
9 x Ø7 mm	2	TST2665408
2 x Ø20 to 30 + 2 x Ø10 to 20	2	TST2665409
2 x Ø8 to 17	1	TST2665411
10 x Ø4 to 10	1	TST2665413

Other inserts are available - Contact us.

An online configurator is available to define your personalised solution.

**Round cable grommet**

Multi-entry - IP54 - For panel thickness 1.5 to 2.5 mm.

Hole size	Reference	Description
M30	ICO43532	6xD5.2 + 2xD6.4 + 2xD9.4
M50	ICO43550	4xD5.3 + 5xD6.3 + 3xD9.5 + 4xD11.3
M50	ICO43551	10xD9.2 + 2xD11.2
M50	ICO43552	16xD6.3 + 4xD9.3
M50	ICO43553	5xD11.7 + 5xD6.3 + 4xD6.5 + 2xD5.5 + 2xD4
M50	ICO43554	5xD7 + 4xD18



MCS / MCD ranges

Combinable cell, RAL 7035 paint

MCS: single door - IP55 **MCD:** Double door - IP55

Cabinet delivered with: cable entry plates, solid galvanised plate (To adjust the depth of the plate: Add HOFMPD02).

Frame thickness: 1.5/1.75 mm, panels and roof th. 1.5 mm, door th. 2 mm, mounting plate th. 3 mm.

Dimensions (mm)			Nbr. doors	Cabinet	Side panels (pair)
H	W	D			
1800	500	500	1	HOFMCS18055R5	HOFSPM1805R5
		400	1	HOFMCS18064R5	HOFSPM1804R5
	600	500	1	HOFMCS18065R5	HOFSPM1805R5
		600	1	HOFMCS18066R5	HOFSPM1806R5
	800	400	1	HOFMCS18084R5	HOFSPM1804R5
		500	1	HOFMCS18085R5	HOFSPM1805R5
		500	2	HOFMCD18085R5	HOFSPM1805R5
		600	1	HOFMCS18086R5	HOFSPM1806R5
	1000	400	1	HOFMCS18104R5	HOFSPM1804R5
		400	2	HOFMCD18104R5	HOFSPM1804R5
		500	1	HOFMCS18105R5	HOFSPM1805R5
		500	2	HOFMCD18105R5	HOFSPM1805R5
		600	1	HOFMCS18106R5	HOFSPM1806R5
	1200	400	2	HOFMCD18124R5	HOFSPM1804R5
		500	2	HOFMCD18125R5	HOFSPM1805R5
		600	2	HOFMCD18126R5	HOFSPM1806R5
	1600	400	2	HOFMCD18164R5	HOFSPM1804R5
2000	500	500	1	HOFMCS20055R5	HOFSPM2005R5
		400	1	HOFMCS20064R5	HOFSPM2004R5
	600	500	1	HOFMCS20065R5	HOFSPM2005R5
		600	1	HOFMCS20066R5	HOFSPM2006R5
		800	1	HOFMCS20068R5	HOFSPM2008R5
	800	400	1	HOFMCS20084R5	HOFSPM2004R5
		500	1	HOFMCS20085R5	HOFSPM2005R5
		500	2	HOFMCD20085R5	HOFSPM2005R5
		600	1	HOFMCS20086R5	HOFSPM2006R5
		800	1	HOFMCS20088R5	HOFSPM2008R5
	1000	400	1	HOFMCS20104R5	HOFSPM2004R5
		400	2	HOFMCD20104R5	HOFSPM2004R5
		500	1	HOFMCS20105R5	HOFSPM2005R5
		500	2	HOFMCD20105R5	HOFSPM2005R5
		600	1	HOFMCS20106R5	HOFSPM2006R5
		600	2	HOFMCD20106R5	HOFSPM2006R5
		800	1	HOFMCS20108R5	HOFSPM2008R5
		800	2	HOFMCD20108R5	HOFSPM2008R5
	1200	400	2	HOFMCD20124R5	HOFSPM2004R5
		500	2	HOFMCD20125R5	HOFSPM2005R5
		600	2	HOFMCD20126R5	HOFSPM2006R5
		800	2	HOFMCD20128R5	HOFSPM2008R5
	1600	400	2	HOFMCD20164R5	HOFSPM2004R5
		500	2	HOFMCD20165R5	HOFSPM2005R5
		600	2	HOFMCD20166R5	HOFSPM2006R5
		600	2	HOFMCD20166R5	HOFSPM2006R5
2200	600	600	1	HOFMCS22066R5	HOFSPM2206R5
		800	1	HOFMCS22068R5	HOFSPM2208R5
	800	600	1	HOFMCS22086R5	HOFSPM2206R5
		800	1	HOFMCS22088R5	HOFSPM2208R5
	1000	600	2	HOFMCD22106R5	HOFSPM2206R5
	1200	600	2	HOFMCD22126R5	HOFSPM2206R5



MCS



MCD

Dimensions (mm)			Nbr. doors	Cabinet
H	W	D		
1800	400	400	1	HOFMCS18044R5
1800	400	500	1	HOFMCS18045R5
1800	400	600	1	HOFMCS18046R5
2000	400	400	1	HOFMCS20044R5
2000	400	500	1	HOFMCS20045R5
2000	400	600	1	HOFMCS20046R5
2000	400	800	1	HOFMCS20048R5

Cable enclosures

W = 400 – RAL7035

Delivered without mounting plate, bottom plate, door frame or cable entry plate.

(can be ordered separately)

MKS /MKD ranges - One-piece floor-mounted cabinet, RAL 7035 paint

MKS: Single door - IP55 - IK10

MKD: Double door - IP55 - IK10

Body th. 1.5 mm, door th. 2 mm, mounting plate th. 3 mm. Removable roof and rear panel

Cabinet delivered with solid galvanised frame and sliding cable entry plates in 2 or 3 parts

(D = 300: 2 parts- D = 400 or more: 3 parts)

For a cabinet without frame, add "PE" before the R5

Dimensions (mm)			Nbr. doors	Cabinet
H	W	D		
1200	600	400	1	HOFMKS12064R5
1200	800	400	1	HOFMKS12084R5
1200	1200	400	2	HOFMKD12124R5
1400	600	300	1	HOFMKS14063R5
1400	600	400	1	HOFMKS14064R5
1400	800	300	1	HOFMKS14083R5
1400	800	400	1	HOFMKS14084R5
1400	1000	300	2	HOFMKD14103R5
1400	1000	400	2	HOFMKD14104R5
1400	1200	300	2	HOFMKD14123R5
1400	1200	400	2	HOFMKD14124R5
1600	600	300	1	HOFMKS16063R5
1600	600	400	1	HOFMKS16064R5
1600	800	300	1	HOFMKS16083R5
1600	800	400	1	HOFMKS16084R5
1600	800	500	1	HOFMKS16085R5
1600	1000	400	1	HOFMKS16104R5
1600	1000	500	1	HOFMKS16105R5
1600	1200	400	2	HOFMKD16124R5
1600	1200	500	2	HOFMKD16125R5

Dimensions (mm)			Nbr. doors	Cabinet
H	W	D		
1800	600	400	1	HOFMKS18064R5
1800	800	400	1	HOFMKS18084R5
1800	800	500	1	HOFMKS18085R5
1800	1000	400	1	HOFMKS18104R5
1800	1200	400	2	HOFMKD18124R5
1800	1200	500	2	HOFMKD18125R5
1800	1600	400	2	HOFMKD18164R5
1800	1600	500	2	HOFMKD18165R5
2000	600	400	1	HOFMKS20064R5
2000	800	400	1	HOFMKS20084R5
2000	800	500	1	HOFMKS20085R5
2000	1000	400	1	HOFMKS20104R5
2000	1000	500	1	HOFMKS20105R5
2000	1200	400	2	HOFMKD20124R5
2000	1200	500	2	HOFMKD20125R5
2000	1600	400	2	HOFMKD20164R5
2000	1600	500	2	HOFMKD20165R5



Brackets to add to adjust the depth of the plate: HOFMPD02.
Also available in 304 and 316L stainless steel. See EKSS / EKDS series

Bases for Multiflex cabinets

Height 100

Front + rear plinths + corners

For MC or MK L cabinet =	Reference
400	HOFPF1040
500	HOFPF1050
600	HOFPF1060
800	HOFPF1080
1000	HOFPF1100
1200	HOFPF1120
1600	2XHOFPF1080

Sides

For D =	MC cells and MK cabinets
300	HOFPS1030
400	HOFPS1040
500	HOFPS1050
600	HOFPS1060
800	HOFPS1080

For W=1600 remember to add 1 PCP where the two 800 bases join.



Height 200

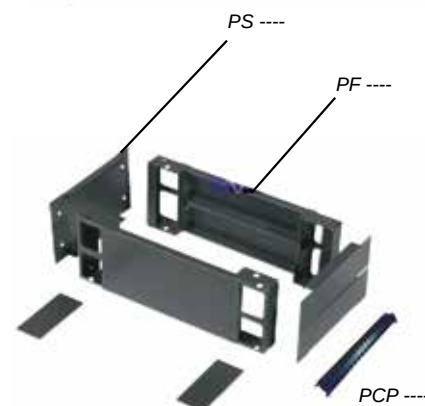
Front + rear plinths + corners

For MC or MK L cabinet =	Reference
400	HOFPF2040
500	HOFPF2050
600	HOFPF2060
800	HOFPF2080
1000	HOFPF2100
1200	HOFPF2120
1600	2XHOFPF2080

Sides

For D =	MC cells and MK cabinets
300	HOFPS2030
400	HOFPS2040
500	HOFPS2050
600	HOFPS2060
800	HOFPS2080

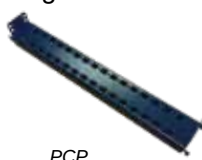
For W=1600 remember to add 1 PCP where the two 800 bases join.



Combining profiles:

Used at the joint between the bases when combining cells.

For MC or MK cabinet	Reference
400	HOFPCP04
500	HOFPCP05
600	HOFPCP06
800	HOFPCP08



The bases are composed of 2 references:
Front and rear plinths + corners: PF ---
Sides: PS
Combining profiles: PCP
RAL7022 paint.

Accessories for floor-mounted cabinets

MCS/MCD – MKS / MKD series

Description	Reference
Combining	
Internal brackets for combining (set of 6)	HOFCCI06
Int. corner reinforcement brackets (set of 4)	HOFCCM04
External brackets for combining (set of 6)	HOFCCCE06
Locks / hinges	
T handle with key No.21323c	HOFLTH560N
Lift handle with key No.2123c	HOFLH501N + HOFLHC522
Lift handle with key other No.	HOFLH501N + HOFLHC522 key No.
Hinge set - single door enclosure (Hinges and rod catches)	HOFDNMK01
Hinge set - double door enclosure (Hinges and rod catches)	HOFDNMK02
180° opening hinges	HOFDHN180N
Document pockets / desks for doors	
A4 plastic - adhesive	HOFDRA04
Metal - to screw on	HOFDRB0303R5
Metal - to screw on W=600	HOFDRB600R5
Metal - to screw on W=800	HOFDRB800R5
Door desk W=600	HOFDDK600R5
Door desk W=800	HOFDDK800R5
Miscellaneous fittings	
Door stop	HOFDSTP02
MP Mounting plate brackets	HOFMPA06
Mounting plate depth adjustment brackets	HOFMPD02
Roof raising spacers (set of 4)	HOFCVK15
Lifting rings (set of 4)	HOFL9304
Lifting brackets (pair)	HOFLC02
Cable entry plate gasket	HOFBG01
Foam gasket mounted on click-in section profile	HOFSCExxx
Levelling feet (set of 4)	HOFLF430
Castors (set of 4)	HOFLCR470
Castors - 2 with brake (set of 4)	HOFLCR471
Lighting / door contact	
9 W LED lighting + switch - fastening screws - 230 VAC	HOFTL4001-9W
Magnetic LED lighting + switch - 120-230 VAC	STE02540310
Magnetic LED lighting + motion sensor 120-240 VAC	STE02541310
LED lighting + switch - fastening screws - 230 VAC	FANFLL230565US
LED lighting + motion sensor - fastening screws - 230 VAC	FANFLL230565UIR
FLL lighting magnetic bracket	FANFLL2MA
Door contact	HOFDSW01



HOFCCCE06



HOFCCM04



HOFDRB0303R5



HOFL9304



HOFLF430



HOFLCRxxx



HOFCCI06



STE025xxxx

Mounting profiles

For cabinet H =	Reference
1800	HOFMPPF1800
2000	HOFMPPF2000
2200	HOFMPPF2200



For cabinet H =	Reference
1200	HOFLCPF1200
1400	HOFLCPF1400
1600	HOFLCPF1600
1800	HOFLCPF1800
2000	HOFLCPF2000
2200	HOFLCPF2200



HOFLCPFxxxx

Many other accessories are available for this range:

- 19" profiles
- Openwork roofs for natural ventilation
- Swivelling frames
- Partial doors and plates, etc.

Do not hesitate to contact us.

Operator console enclosures

OICE series Painted sheet metal - IP55

From the MAS series. Used to house operator consoles in industrial environments.

The body of the enclosure is pre-machined to allow attachment to the arms on the next page.

The front panel is made of aluminium for an aesthetic control panel.

Dimensions	Reference
300 x 300 x 155	HOFOICE303015
300 x 400 x 210	HOFOICE304021
400 x 400 x 210	HOFOICE404021
400 x 600 x 210	HOFOICE406021
500 x 500 x 210	HOFOICE505021
500 x 600 x 210	HOFOICE506021
600 x 600 x 210	HOFOICE606021



CC3000 series - Anodised aluminium - IP65

This extremely aesthetic enclosure made of anodised aluminium is designed for operator consoles and other control units. We keep three sizes in stock, but countless variants can be produced to order. (Specific size, personalised front panel, drilled holes, etc.). Pre-machined to allow attachment to the arms on the next page.

Reference	Designation	Dimensions (W x H x D)
BER1145300350	8- & 9- inch screen	340 x 270 x 120 mm
BER1145300270	10- & 12-inch screen	420 x 360 x 120 mm
BER1145300332	15-inch screen	500 x 400 x 120 mm



Operator console enclosure
Anodised aluminium profile

CC5000 Next series

Custom-built, personalisable control console.

Anodised aluminium - IP65

This new range combining modularity, functionality, ergonomics and style gives you with all the inherent functionality and quality of the BERNSTEIN ranges.

We offer two pre-configured models (corners in RAL 9006 colour) in the table below, but you can also have your own customised version made to your dimensions and colours. Contact us.

Reference	Designation	Dimensions (W x H x D)
BER1245500124	19-inch screen	650 x 450 x 125
BER1845500104	21/22-inch screen	742 x 541 x 185



CS3000 Next arms and accessories

This new system, CS3000Next, is designed to be used with the CC3000 or CC5000Next consoles

Maximum load capacity: 800 N at 1 m. RAL 9006 - IP65.

Modern design which blends elegantly into all applications.

Existing connection parts for adaptation between the CS2000 and CS3000Next ranges.

No.	CS3000 Next reference	Designation
1	BER1017300002	Straight coupling
2	BER1017300003	Console elbow coupling
3	BER1017300007	Fixed elbow
4	BER1017300010	Intermediate joint
5	BER1017300012	Horizontal wall joint
6	BER1017300011	Vertical wall joint
7	BER1017300014	Horizontal rotating joint
8	BER1017300009	Reducer elbow (CS3000 to CS3000 Next)
9	BER1017300004	VESA 100 vertical panel coupling
	BER1017300005	VESA 100 horizontal panel coupling
11	BER9524700001	Tube Length: 250 mm
	BER9524700002	Tube Length: 500 mm
	BER9524700003	Tube Length: 750 mm
	BER9524700004	Tube Length: 1000 mm
	BER9524700006	Tube Length: 1500 mm
	BER9808014900	Handle Length: 200 mm
	BER9808015000	Handle Length: 140 mm



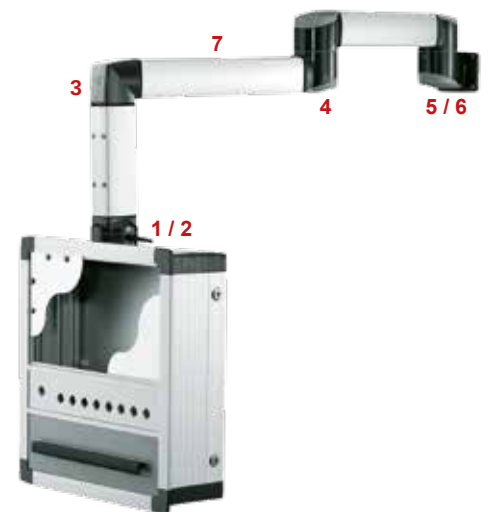
CS3000 arms and accessories

Can be used with the CS3000 and CS5000Next consoles

Maximum load capacity: 1250 N at 1 m. RAL 7016 or RAL 9006 - IP65.

A comprehensive range of joints, couplings, elbows and tubes for an infinite number of configurations.

No.	Reference		Designation
	RAL7016	RAL9006	
1	BER1015300001	BER1015300177	Straight coupling
2	BER1015300002	BER1015300178	Elbow coupling
3	BER1015300008	BER1015300195	Fixed elbow
4	BER1015300004	BER1015300201	Intermediate joint
5	BER1015300007	BER1015300200	Horizontal wall joint
6	BER1015300006	BER1015300199	Vertical wall joint
7	Arms - anodised aluminium		
	BER9524500001	Tube Length =250 mm	
	BER9524500002	Tube Length =500 mm	
	BER9524500003	Tube Length =750 mm	
	BER9524500004	Tube Length =1000 mm	
	BER9524500006	Tube Length =1500mm	
	Handles - anodised aluminium		
	BER9808014900	Handle Length =200mm	
	BER9808015000	Handle Length =140mm	



Filter fans

FF series

IP54 - RAL7035 colour

“Click-in” type flush-fitting side mounting. New clip design for easier mounting (no need for screws), dismantling of the front without tools for easy replacement of the filter media, new body design for more efficient drainage of fluids, more efficient and aesthetic continuous flush-fitting extruded seal.

Other colours available on request: RAL 7032 Beige - RAL 9005 Black - RAL 9010 White



FANFFxxU

Description			Reference		Replacement IP54 filter	Replacement IP55 filter
Airflow rates (m³/h)	Power supply	Dimensions	Filter fan	Outlet grille		
18 / 8.5	230 V - 50/60 Hz	105 x 105	FANFF08A230UN	FANFF08U	FANM08FPFK	---
45 / 29	230 V - 50/60 Hz	150 x 150	FANFF12A230UF	FANFF12U	FANM12FPFK	FANM12FPF5K
100 / 62	230 V - 50/60 Hz	204 x 204	FANFF13PA230UF	FANFF13U	FANM13FPFK	FANM13FPF5K
110 / 96	230 V - 50/60 Hz	250 x 250	FANFF15PA230UF	FANFF15U	FANM15FPFK	FANM15FPF5K
230 / 159	230 V - 50/60 Hz	250 x 250	FANFF15A230UF	FANFF15U	FANM15FPFK	FANM15FPF5K
265 / 215	230 V - 50/60 Hz	250 x 250	FANFF15GA230UJ	FANFF15U	FANM15FPFK	FANM15FPF5K
331 / 257	230 V - 50/60 Hz	250 x 250	FANFF15GDA230UJ	FANFF15U	FANM15FPFK	FANM15FPF5K
535 / 375	230 V - 50/60 Hz	325 x 325	FANFF20A230UE	FANFF20U	FANM20FPFK	FANM20FPF5K
705 / 510	230 V - 50/60 Hz	325 x 325	FANFF20GA230UE	FANFF20U	FANM20FPFK	FANM20FPF5K

Roof fans

RAL7035 colour

Description	Reference	
	Filter fan	Outlet grille
440 / 395 m³/h - IP54 - 230 V - 50/60 Hz	FANTP19U230B54	FANFF20U
800 / 660 m³/h - 230 V 50/60 Hz	FANT22U230B	FANFF20U
1120/1000 m³/h - 230 V - 50/60 Hz	TEXDLK25BX0B	FANFF20U
2100 m³/h - 230 V - 50/60 Hz	TEXDLK42BX0B	FANFF20U



FANTP19U230B54

Side or roof filter fans are also available with other voltages (24 VDC - 115 VAC)
Contact us.

Heating resistors

Natural convection	Reference	Voltage
30 W - cable - metal housing	FANHWM030	110-240 VAC/DC
45 W - terminal block - metal housing	FANHTM045	110-240 VAC/DC
60 W - terminal block - metal housing	FANHTM060	110-240 VAC/DC
80 W - terminal block - metal housing	FANHTM080	110-240 VAC/DC
100 W - terminal block - metal housing	FANHTM100	110-240 VAC/DC
150 W - terminal block - metal housing	FANHTM150	110-240 VAC/DC

Available with plastic or metal housing - Contact us.



FANHTM100

Ventilated - metal housing	Reference
250 W - 250 V - without thermostat	FANHVMS250THP230
350 W - 230 V - without thermostat	FANHVMS350THP230

Other powers, connections and voltages available. Contact us.



FANHVMS250THP-230

Thermostats - Hygrostats

Description	Reference
Thermostat 1 NC dry contact (heating) -10 to +80°C	FANTRT10A230VNC
Thermostat 1 NO dry contact (fan) -10 to +80°C	FANTRT10A230VNO
Thermostat 1 CO contact	FANTRT230VS01
Thermostat 2 dry contacts, 1 NO + 1 NC	FANTRT210A230VNCNO
Mechanical hygrostat	FANIGR35F

Other models and settings ranges are available. Contact us



FANTRT10A230VNC and
FANTRT10A230VNO



FANTRT210A230VNCNO

SCHROFF has been a pioneer in the field of electronics housings for over 60 years.

Compatible. Modular. Future-proof. nVent SCHROFF products are world-famous, satisfying national and international standards for electronics housings and compliant with the IEC 60297-3-x and IEEE 1101.x standards.

Subracks and 19" enclosures.

19" nVent SCHROFF subracks and rack-mount frames provide an extremely versatile range of possibilities for military, telecommunications, transport/infrastructure applications, and for tests and measuring.

Thanks to a broad portfolio of standard products based on a modular range, the 19" rack-mount chassis and subracks allow for extremely flexible design to satisfy the technical requirements of applications such as impact and vibration resistance and EMC shielding.



Compact enclosures and rugged enclosures

The **Interscale** personalisable range enables you to design a fully integrated solution, guiding you step-by-step in the choice of pre-defined and standardised electronic and mechanical components.

Based on an EMC enclosure with personalised dimensions, colours, markings and cut-outs to your measurements, select various electronic components according to your needs and innovative cooling solutions plus a wide range of standard accessories for exactly the compact enclosure you need to integrate and protect your electronic board.

BOARD

Schroff Interscale enclosures are suitable for both standard boards and proprietary boards.

ELECTRONIC COMPONENTS

Based on the board to be integrated, our engineers have selected an ecosystem of components which are compatible with your system.

HEAT MANAGEMENT

Innovative cooling options are offered to satisfy your thermal requirements.

DESIGN AND IDENTITY

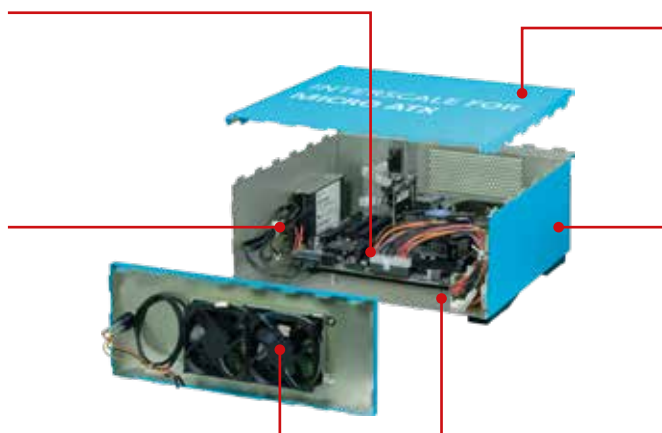
Personalise your enclosure with cut-outs, screen printing, powder paint coating and digital printing to satisfy your needs.

ACCESSORIES

Choose from a vast range of fastening accessories to complete your system.

ENCLOSURE

Schroff Interscale enclosures are available in various dimensions and feature an interlocking tabbed construction that provides built-in EMC protection.



"Outdoor" aluminium cabinets – Sustainable protection against the weather

nVent SCHROFF is a supplier specialising in the development of solutions for industry leaders in the railway, telecommunications, storage and energy management sectors.

Telecommunications and railway applications require sophisticated electronics which are often installed in an outdoor setting. nVent SCHROFF Outdoor cabinets protect these electronic components from the weather and vandalism, guaranteeing operational continuity. Their design enables multiple configurations in terms of size and functions along with various cooling options.



Single-wall Outdoor cabinets



Double-wall Outdoor cabinets

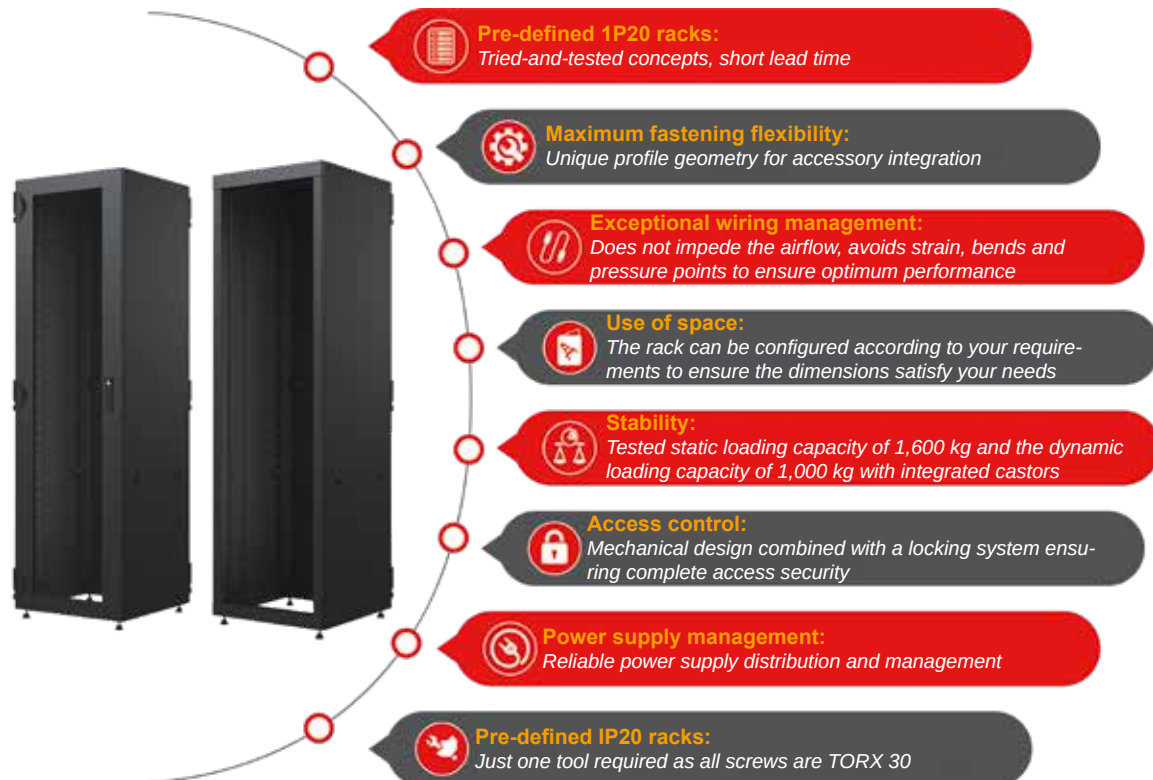
New Varistar CP cabinet

The new Varistar CP cabinet has a robust welded steel frame.

You can choose from over one hundred different cabinet variants by combining the various components available.

IP20 to IP55 - 24 to 52U

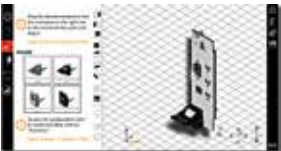
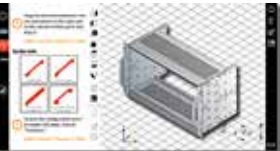
The wide range of accessories, personalisation options (EMC, special cut-outs and colours) and multiple cooling options will complete the configuration of your cabinet.



Online configurators: Varistar, Novastar, Front panels and Enclosures.

Our online configurators simplify and speed up your digital workflow, from selection to delivery. You can design specific solutions adapted to your needs.

Our 3D configurators are visual and intuitive: drag and drop compatible components to generate your personalised solution. Once you have finished, you can also download the CAD files for the configuration, the bill of parts and the optimised 3D PDF.

 VARISTAR CP ^{NEW} 3D configurator Design and personalise your steel electronics / server cabinet with integrated electromechanical accessories. ACCESS THE 3D CONFIGURATOR	 NOVASTAR 3D configurator Design a bespoke aluminium cabinet, particularly suitable for laboratories and studios! ACCESS THE 3D CONFIGURATOR	 FRONT 3D configurator Design a custom-made front with personalised handles, screws, colours, cut-outs, texts and graphics! ACCESS THE 3D CONFIGURATOR	 SUBRACK 3D configurator Design a custom-made subrack to meet your requirements in terms of dimensions and environment! ACCESS THE 3D CONFIGURATOR
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Filter fans

New "FILTER FAN PLUS" series

IP54

With its unique mobile flap technology, the Plus filter fan offers improved efficiency and significantly increased airflow.

It is mounted without any tools and includes a built-in locking system for fastening to walls 1 to 4 mm thick.

It operates with a single filter, thus reducing maintenance costs.

Free outlet airflow through the mobile flaps.



STE01871030

Cut-out (H x W - mm)	Voltage	FPI system (Airflow In)			FPO system (Airflow Out)		
		Description	Fan	Outlet grille	Description	Fan	Outlet grille
92 x 92	230 VAC	13/19 m³/h	STE01870030	STE11870000	15/24 m³/h	STE01880000	STE11880030
124 x 124	230 VAC	42/52 m³/h	STE01871030	STE11871000	47/97 m³/h	STE01881000	STE11881030
176 x 176	230 VAC	139/170 m³/h	STE01872030	STE11872000	137/263 m³/h	STE01882000	STE11882030
223 x 223	230 VAC	271/305 m³/h	STE01873030	STE11873000	281/536 m³/h	STE01883000	STE11883030
291 x 291	230 VAC	373/433 m³/h	STE01874030	STE11874000	413/727 m³/h	STE01884000	STE11884030

FPI: Filter fan on inlet - Outlet grille without filter with mobile flaps

FPO: Inlet grille with filter, fan without filter on outlet with mobile flaps.

Heating resistors

Natural convection - housing avoiding direct contact with the heating element

Description	Reference
CS060 - 50 W - terminal block - 120-240 VAC/DC	STE06000000
CS060 - 100 W - terminal block - 120-240 VAC/DC	STE06010000
CS060 - 150 W - terminal block - 120-240 VAC/DC	STE06020000



STE06010000

Fan - housing avoiding direct contact with the heating element

Description	Reference
CS028 - 150 W - 230 VAC - no thermostat - snap-on	STE02800000
CSL028 - 250 W - 230 VAC - no thermostat - snap-on	STE02811000
CSL028 - 400 W - 230 VAC - no thermostat - snap-on	STE02810000
CR027 - 400 W - 230 VAC - with thermostat - snap-on	STE02700000
CR027 - 550 W - 230 VAC - with thermostat - snap-on	STE02701000

There are numerous other models from 5 -> 1000 W. Contact us.



STE02700000

Thermostats - Hygrostats - Hygrotherms

Description	Reference
Thermostat 1 NC dry contact (heating) 0 to +60°C	STE11100000
Thermostat 1 NO dry contact (ventilation) 0 to +60°C	STE11101000
Thermostat 1 CO contact	STE01170000
Thermostat 2 dry contacts, 1 NO + 1 NC	STE01172000
Mechanical hygrostat	STE01220000
Electronic hygrotherm	STE01230000



STE11100100
+ STE11100000



STE01230000

Lighting

LED025: Connector or power cable to be ordered separately

Description	Reference
LED Ecoline + switch - screw fastening - 120/240 VAC	STE02540311
LED Ecoline + switch - magnetic mount - 120/240 VAC	STE02540310
LED025 - LED + switch - screw fastening - 120-240 VAC	STE02540001
LED025 - LED + switch - magnetic mount - 120-240 VAC	STE02540000
LED025 - LED + motion sensor - magnetic mount - 120-240 VAC	STE02541000
AC power cable 2x1.5 mm² length 2 m + female connector	STE244356
AC daisy-chaining cable 2x1.5 mm² length 1 m	STE244358
AC female connector	STE264057
AC male connector	STE264058

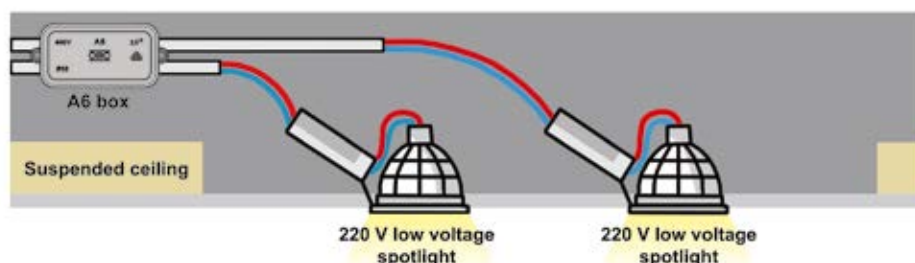


LED025 range

Junction boxes for suspended ceilings

400 V. Glow wire test: 750°

Designation	External dimensions	Entries	PP	
			Reference	Pkg
Junction box A6	90 x 43 x 42 mm	6 x 7-17 and 4 x 7-9	OBO2000001	10



T-Box junction boxes

500 V. Glow wire test: 960°

Designation	External dimensions	Entries	PP/FG - RAL 7035 light grey	
			Reference	Pkg
Junction box T 25 F - IP65	Ø 80 x 51 mm	4 x M25	OBO2007312	5
Junction box T 40 F - IP55	90 x 90 x 52 mm	7 x M25	OBO2007320	5
Junction box T 60 F - IP66	114 x 114 x 57 mm	7 x M25	OBO2007339	5
Junction box T 100 F - IP66	151 x 117 x 67 mm	10 x M25	OBO2007347	1
Junction box T 160 F - IP66	190 x 150 x 77 mm	7 x M25 + 5 x M32	OBO2007355	1
Junction box T 250 F - IP66	240 x 190 x 95 mm	9 x M25 + 7 x M32	OBO2007363	1
Junction box T 350 F - IP66	285 x 201 x 120 mm	16 x M32 + 8 x M40	OBO2007371	1



Screw connector strip, screw terminals

450 V. Glow wire test: 850°

Designation	Nominal cross-section	Rated current	PP	
			Reference	Pkg
12-pole connector strip, black	4 mm ²	32 A	OBO2056089	10
12-pole connector strip, black	6 mm ²	41 A	OBO2056232	10
12-pole connector strip, black	10 mm ²	57 A	OBO2056380	10
12-pole connector strip, black	16 mm ²	76 A	OBO2056569	10
12-pole connector strip, black	25 mm ²	101 A	OBO2056585	10
12-pole connector strip, black	35 mm ²	125 A	OBO2056593	10
12-pole connector strip, white	4 mm ²	32 A	OBO2056070	10
12-pole connector strip, white	6 mm ²	41 A	OBO2056224	10
12-pole connector strip, white	10 mm ²	57 A	OBO2056372	10
12-pole connector strip, white	16 mm ²	76 A	OBO2056550	10
12-pole connector strip, white	25 mm ²	101 A	OBO2056577	10
12-pole connector strip, white	35 mm ²	125 A	OBO2056590	10



Air conditioners

Calculation software is available to help you define your air conditioner. Consult your local contact.

EGO series

Air conditioners for side mounting - surface mounting

Electronic thermostat Power from 300 to 3850 W. Fully-integrated condensate evaporator from 800 W

Colour: RAL 7035 - Other finishes available on request (other colour, stainless steel housing).

Cooling power EN814 A35/A35 (W)	Overall dimension			Reference according to power supply (Voltage / nbr phases / Freq.)			
	H	W	D	230/1/50-60	115/1/50-60	400-440/2/50-60	400/3/50-60
300	340	525	135	TEXEGOS3BT1B	-	-	-
380	460	285	180	TEXEGO04BT1B	TEXEGO04CT1B	-	-
640	606	316	212	TEXEGO06BT1B	TEXEGO06CT1B	TEXEGO06GT1B	-
820	783	348	215	TEXEGO08BT1B	TEXEGO08CT1B	TEXEGO08GT1B	-
1000	783	348	215	TEXEGO10BT1B	TEXEGO10CT1B	TEXEGO10GT1B	-
1250	999	405	237	TEXEGO12BT1B	TEXEGO12CT1B	TEXEGO12GT1B	-
1600	999	405	237	TEXEGO16BT1B	TEXEGO16CT1B	TEXEGO16GT1B	-
2000	999	405	237	TEXEGO20BT1B	TEXEGO20CT1B	-	TEXEGO20LT1B
2900	1270	500	336	TEXEGO30BT1B	-	-	TEXEGO30LT1B
3850	1270	500	336	TEXEGO40BT1B	-	-	TEXEGO40LT1B

Available in "outdoor" version and with 304 stainless steel housing



EGO

DEK series

Air conditioners for roof installation

Electronic thermostat Power 410 to 3850 W.

Colour: RAL 7035 - Other finishes available on request (other colour, stainless steel housing).

Cooling power EN814 A35/A35 (W)	Overall dimensions			Reference according to power supply (Voltage / nbr phases / Freq.)			
	H	W	D	230/1/50-60	115/1/50-60	400-440/2/50-60	400/3/50-60
410	264	259	486	TEXDEK04BTOB	TEXDEK04CTOB	-	-
840	340	340	600	TEXDEK08BTOB	TEXDEK08CTOB	TEXDEK08GTOB	-
1150	415	401	567	TEXDEK12BTOB	TEXDEK12CTOB	TEXDEK12GTOB	-
1550	415	401	567	TEXDEK15BTOB	TEXDEK15CTOB	TEXDEK15GTOB	-
2050	415	401	567	TEXDEK20BTOB	TEXDEK20CTOB	-	TEXDEK20LTOB
2900	496	492	797	TEXDEK30BTOB	-	-	TEXDEK30LTOB
3850	496	492	797	TEXDEK40BTOB	-	-	TEXDEK40LTOB



DEK

Air/Air heat exchangers

MIX series - Side mounting

Colour: RAL 7035 - Other finishes available on request (other colours, stainless steel housing).

Thermal conductance (W/K)	Overall dimensions			Reference according to power supply (Voltage / nbr phases / Freq.)	
	H	W	D	230/1/50-60	115/1/50-60
14	363	188	165	TEXMIX14BXOB	TEXMIX14CXOB
36	771	316	93	TEXMIX36BXOB	TEXMIX36CXOB
80	1260	317	108	TEXMIX80BXOB	TEXMIX80CXOB



MIX

AIR/WATER heat exchangers

BIT range (roof installation) and BLU range (side mounting)

Colour RAL 7035 - Other finishes available on request (other colour, stainless steel housing). UL version on request.

Installation	Cooling power (W) W10 A35	H	W	D	230 V / 1 ph 50-60 Hz	110 V / 1 ph 50-60 Hz	400-440 V / 2 ph 50-60 Hz
Roof	2500	270	400	540	TEXBIT25BX0B	TEXBIT25CX0B	-
Side	1000	453	311	115	TEXBLU10BX0B	TEXBLU10CX0B	-
Side	1750	901	398	137	TEXBLU18BX0B	TEXBLU18CX0B	-
Side	2500	901	398	137	TEXBLU25BX0B	TEXBLU25CX0B	-
Side	3500	1148	398	163	TEXBLU35BX0B	TEXBLU35CX0B	-
Side	4500	1148	398	163	TEXBLU45BX0B	TEXBLU45CX0B	-
Side	6000	1502	450	163	TEXBLU60BX0B	TEXBLU60CX0B	TEXBLU60GX0B

INDUSTRIAL CONTROL

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3RV2 motor circuit breakers	SIEMENS.....	B.31
Motor contactors.....	SIEMENS.....	B.32
Modular protection.....	SIEMENS.....	B.33
Circuit breakers, moulded cases and accessories.....	SIEMENS.....	B.34
Power supplies and transformers	SIEMENS.....	B.36
Source switching	SOCOMEK	B.37
Energy efficiency: Energy metering system	SOCOMEK	B.38
Energy efficiency: Multifunction power monitoring device - PMD	SOCOMEK	B.39
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Lighting for machines and workstations.....	WALDMANN.....	B.46

Combinations of three-pole contactors and motor circuit breakers

Composition of a 0.06 to 51 kW standard direct starter

Motor power (kW)	Adjustment range	Motor circuit breaker		Assembly kit		Contactor Ref. 100...250 V (AC/DC)
		Reference	Designation	Reference	Designation	
0.06	0.16...0.25	1SAM250000R1002	DISJ.MS116-0.25	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL137001R1310
0.09	0.25...0.40	1SAM250000R1003	DISJ.MS116-0.4	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL137001R1310
0.12-0.18	0.40...0.63	1SAM250000R1004	DISJ.MS116-0.63	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL137001R1310
0.25	0.63...1.00	1SAM250000R1005	DISJ.MS116-1.0	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL137001R1310
0.37-0.55	1.00...1.60	1SAM250000R1006	DISJ.MS116-1.6	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL137001R1310
0.75	1.60...2.50	1SAM250000R1007	DISJ.MS116-2.5	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL137001R1310
1.1-1.5	2.50...4.00	1SAM250000R1008	DISJ.MS116-4.0	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL137001R1310
2.2	4.00...6.30	1SAM250000R1009	DISJ.MS116-6.3	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL137001R1310
3-4	6.30...10.0	1SAM250000R1010	DISJ.MS116-10	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL137001R1310
5.5	8.00...12.0	1SAM250000R1012	DISJ.MS116-12	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL157001R1310
7.5	10.0...16.0	1SAM250000R1011	DISJ.MS116-16	1SBN081306T1000	DISJ.BEA 16-4 KIT	1SBL177001R1310
11	20.0...25.0	1SAM250000R1014	DISJ.MS116-25	1SBN082306T2000	DISJ.BEA 38-4 KIT	1SBL237001R1311
15	25.0...32.0	1SAM250000R1015	DISJ.MS116-32	1SBN082306T2000	DISJ.BEA 38-4 KIT	1SBL277001R1311



Motor power (kW)	Adjustment range	Motor circuit breaker		Contactor (control voltage 100-250 V)	
		Reference	Designation	Reference	Designation
18.5	28-40	1SAM451000R1015	MS165-42	1SBL297001R1311	CONT.AF38-30-00
22	36-50	1SAM451000R1016	MS165-54	1SBL367001R1300	CONT.AF52-30-00
30	45-63	1SAM451000R1017	MS165-65	1SBL387001R1300	CONT.AF65-30-00
37	57-75	1SAM550000R1008	MS495-75	1SBL397001R1300	CONT.AF80-30-00
45	62-73	1SAM451000R1018	MS165-73	-	-



Accessories for MS 116-165-450-495 series motor circuit breakers

Series	Front auxiliary contact 1 NC + 1 NO	Right side fault signal contact 1 NC + 1 NO	Left side trip releases			
			undervoltage release		shunt release	
			Voltage 24 VAC	Voltage 230 VAC	Voltage 24 VAC	Voltage 230 VAC
			Reference	Reference	Reference	Reference
MS 116 / 165	1SAM201901R1001	1SAM201903R1001	1SAM201904R1001	1SAM201904R1005	1SAM201910R1001	1SAM201910R1003

Auxiliary contacts for AF09 to A110 series contactors

	Type of contactor		Type of auxiliary contact block			
	Designation	Numb. and type of contacts integrated in the product	Type of supplementary auxiliary contacts	Reference	Designation	Maximum number per contactor (minimum config.)
1 st solution	AF09...AF96-30-00	1 NC / none	1 NC	1SBN010110R1001	CA4-01	Maximum of 4 mixed per contactor
			1 NO	1SBN010110R1010	CA4-10	
2 nd solution	AF09...AF96-30-00	1 NC / none	3 NC + 1 NO	1SBN010140R1113	CA4-13M	1 max. per contactor
			2 NC + 2 NO	1SBN010140R1122	CA4-22M	

The solutions cannot both be used on the same contactor at the same time

STEF transformer

UL/CSA. Dual primary winding 230/400 V
Spring terminal block connection
Mounting on Rail DIN from 40 to 250 VA.

P (VA)	STEF	
	Secondary	
	24 V	230 V
40	BLOSTEF40/24-P	BLOSTEF40/23-P
63	BLOSTEF63/24-P	BLOSTEF63/23-P
100	BLOSTEF100/24-P	BLOSTEF100/23-P
160	BLOSTEF160/24-P	BLOSTEF160/23-P
250	BLOSTEF250/24-P	BLOSTEF250/23-P
400	BLOSTEF400/24-P	BLOSTEF400/23-P
630	BLOSTEF630/24-P	BLOSTEF630/23-P
1000	BLOSTEF1000/24-P	BLOSTEF1000/23-P



STEU

STEU transformer

UL/CSA. Dual primary winding 230/400 V with ± 15 V input.
Spring terminal block connection
Mounting on Rail DIN from 63 to 250 VA.

P (VA)	STEU		
	Secondary		
	2 x 12 V	2 x 24 V	2 x 115 V
63	BLOSTEU63/24-P	BLOSTEU63/48-P	BLOSTEU63/23-P
100	BLOSTEU100/24-P	BLOSTEU100/48-P	BLOSTEU100/23-P
160	BLOSTEU160/24-P	BLOSTEU160/48-P	BLOSTEU160/23-P
250	BLOSTEU250/24-P	BLOSTEU250/48-P	BLOSTEU250/23-P
320	BLOSTEU320/24-P	BLOSTEU320/48-P	BLOSTEU320/23-P
400	BLOSTEU400/24-P	-	BLOSTEU400/23-P
500	BLOSTEU500/24-P	BLOSTEU500/48-P	BLOSTEU500/23-P
630	BLOSTEU630/24-P	BLOSTEU630/48-P	BLOSTEU630/23-P
800	BLOSTEU800/24-P	BLOSTEU800/48-P	BLOSTEU800/23-P
1000	BLOSTEU1000/24-P	BLOSTEU1000/48-P	BLOSTEU1000/23-P
1600	-	-	BLOSTEU1600/23-P
2000	-	-	BLOSTEU2000/23-P
2500	-	-	BLOSTEU2500/23-P

If electrostatic shield needed, replace the letter **E** by **S**.

STSU range equipped with screw terminal block connection.

Non stabilized DC power supply GNC

UL/CSA. Input 230 V or 400 V ± 15 V.
Output 24 VDC. Ripple 3%

Rated	Reference
2.5 A	BLOGNC24-2.5-P
5 A	BLOGNC24-5-P
7.5 A	BLOGNC24-7.5-P
10 A	BLOGNC24-10-P
15 A	BLOGNC24-15-P



GNC



PCC-0124-200-2

Switched-mode power supply single-phase input 230 V

UL/CSA compliant. 24 VDC.
Integrated power boost 150% 5s

Output voltage (VDC)	Current (A)	Reference
24	5	BLOPCC-0124-050-2
	10	BLOPCC-0124-100-2
	20	BLOPCC-0124-200-2
	40	BLOPCC-0124-400-2

EB modular circuit breaker

UL/CSA compliant. 1 channel. Width 12 mm. 24 VDC

Rating (A)	Thermal magnetic curve	With 1.25 In current limitation	
		Electronic curve	Current can be adjusted via IO Link or Modbus RTU
0.5 to 10	BLOEB-0724-100-0(F)		BLOEB-0824-100-0(F)
1	BLOEB-2724-010-0(F)	BLOEB-1824-010-0	
2	BLOEB-2724-020-0(F)	BLOEB-1824-020-0	
3	BLOEB-2724-030-0(F)	BLOEB-1824-030-0	
4	BLOEB-2724-040-0(F)	BLOEB-1824-040-0	
6	BLOEB-2724-060-0(F)	BLOEB-1824-060-0	
8	BLOEB-2724-080-0(F)	BLOEB-1824-080-0	
10	BLOEB-2724-100-0(F)	BLOEB-1824-100-0	
15	BLOEB-2724-150-0(F)		
16	BLOEB-2724-160-0(F)		

Option for thermal magnetic circuit breaker only: high-speed curve add **F**

Thermal magnetic multi-channel electronic circuit breaker

UL/CSA compliant. 24 VDC. Remote reset Also available with current limitation

Outputs	Current	Reference
2	1-6 A	BLOPM-0724-120-0
	2-10 A	BLOPM-0724-200-0
4	1-6 A	BLOPM-0724-240-0
	2-10 A	BLOPM-0724-400-0(I1)
8	1-6 A	BLOPC-0724-480-0
	2-10 A	BLOPC-0724-800-0(I1)

IO-Link possible only on the two references followed by **I1**



BLOPM-0724-xxx-x

Accessories

Reference	Designation
BLOEB-PM	Potential extension
BLOEB-GND4	0 V 4-channel contact terminals
BLOEB-GND8	0 V 8-channel contact terminals
BLOEB-COV/U	End flange
BLOEB-BARxx	Connection comb

xx: number of modules.



EB

XK range - DIN and LED

Interface relays directly adaptable on DIN equipped with LED indicator.

Reference	Switchable current*	Switchable voltage	Control voltage	Dimensions (L x W x H)
CLDXKA20420	5 A	12-275 VAC	6-30 VDC	12.2 x 76.4 x 53
CLDXKA70440	5 A	12-440 VAC	12-30 VAC/DC	12.2 x 76.4 x 53
CLDXKLD0020*	4 A	10-100 VDC	18-32 VDC	36 x 78 x 60
CLDXKD10306	3 A	2-60 VDC	5-30 VDC	12.2 x 76.4 x 53
CLDXKD90306	3 A	2-60 VDC	90-240 VAC	12.2 x 76.4 x 53
CLDXKH20120	10 A	12-280 VAC	10-32 VDC	25 x 76.4 x 53

* includes free-wheeling diode and protection for inductive load.

STATIC RELAYS

XKA

SO8 range - LED

Interface relays adapted to most loads - LED indicator - IP20.

Reference	Switchable current*	Switchable voltage	Control voltage	Dimensions (L x W x H)
CLDSO842974	25 A	12-275 VAC	20-265 VAC/DC	48 x 58.5 x 30
CLDSO843970	35 A	12-275 VAC	20-265 VAC/DC	48 x 58.5 x 30
CLDSO863070	35 A	24-510 VAC	3.5-32 VDC	48 x 58.5 x 30
CLDSO865070	50 A	24-510 VAC	3.5-32 VDC	48 x 58.5 x 30
CLDSO865970	50 A	24-510 VAC	20-265 VAC/DC	48 x 58.5 x 30
CLDSO867970	75 A	24-510 VAC	20-265 VAC/DC	48 x 58.5 x 30
CLDSO868070	95 A	24-510 VAC	3.5-32 VDC	48 x 58.5 x 30
CLDSO869970	125 A	24-510 VAC	20-265 VAC/DC	48 x 58.5 x 30

* Requires a heat sink.



SO8

SUL/SUM range

Ready-to-use relays adapted to most loads, integrated DIN rail adaptation and LED indicator.

Reference	Output voltage	Max current switchable at 25°C	Control voltage	Dimensions (L x W x H)
CLDSUL842070	12-275 VAC	23 A	3-32 VDC	22.5 x 91 x 116
CLDSUL842970	12-275 VAC	23 A	180-240 VAC	22.5 x 91 x 116
CLDSUL865070	24-510 VAC	32 A	3.5-32 VDC	22.5 x 91 x 116
CLDSUL865970	24-510 VAC	32 A	180-240 VAC	22.5 x 91 x 116
CLDSUM865070	24-510 VAC	45 A	3.5-32 VDC	45 x 91 x 116

OPTIONS:

ESCU module - Relay load current monitoring

ECOM module - Temperature regulation and current measurement



SUM

Reference	Function	Control voltage
CLDESUC0450	Current monitoring	8-30 V
CLDECOM0010	Current measurement / regulation	24 V +/- 10%



ECOM



SGT

SGT/SMT range

Three-phase relays designed for resistive (AC51) and inductive (AC53) load control

Reference	Switchable current AC-51 - (AC-53)	Function	Switchable voltage	Control voltage	Heat sink	Dimensions (L x W x H)
CLDSMR8621520	3x5AC53	Three-phase Motor inverter	24-510 VAC	4-30 VDC	No	45 x 100 x 65
CLDSMT8628521	3x17AC51 (3x5AC53)	Three-phase and spring connection	24-520 VAC	4-30 VDC	Ready-to-use	45 x 100 x 145
CLDSGT8658502	(3x25AC51) (3x12AC53)	Three-phase and screw connections	24-520 VAC	24-255 VAC/DC	Ready-to-use	90 x 80 x 105
CLDSGT8698503	(3x32AC51) (3x32AC53)		24-520 VAC	24-255 VAC/DC	Ready-to-use	90 x 80 x 135
CLDSGT8698504	(3x75AC51) (3x32AC53)		24-520 VAC	24-255 VAC/DC	Ready-to-use	100 x 155 x 145
CLDSGT8658500	(3x50AC51) (3x12AC53)		24-520 VAC	24-255 VAC/DC	No	100 x 77 x 35
CLDSGT8698500	3x125AC51 (3x32AC53)		24-520 VAC	24-255 VAC/DC	No	100 x 77 x 35

Type 1 AC surge arrester.

Location: main low voltage distribution panel

Single-phase, three-phase or three-phase + neutral surge arrester according to IEC61643-11 and NF EN 61643-11. Fuse protection recommended: Gg 125 A or SFD1-13S range

Designation	Reference	Rated voltage	Impulse current on 10/35 µs (kA)	Iscrr (kA)
DAC1-13VGS-11-275	CIT821730242	230 VAC Single-phase IT, TN neutral system	12.5	50
DAC1-13VGS-30-275	CIT821730223	230/400 VAC - 3P TN-C neutral system	12.5	50
DAC1-13VGS-31-275	CIT821730244	230/400 VAC - 3P+N TN-S neutral system	12.5	50



CIT821730244

Designation	Reference	Rated voltage	Impulse current on 10/35 µs (kA)	Iscrr (kA)
DAC1-13S-30-440	CIT821710423	230/400 VAC - 3P IT neutral system	12.5	50
DAC1-13S-40-440	CIT821710424	230/400 VAC - 3P+N IT neutral system	12.5	50



DAC1-13VGS

Contact us for the limp value of 25 kA, 35 kA or 50 kA per pole.

Type 2 AC surge arrester

Location: main low voltage distribution panel

Single-phase, three-phase or three-phase + neutral surge arrester for main low voltage distribution panel or distribution cabinets according to IEC61643-11 and NF EN 61643-11.

Designation	Reference	Rated voltage	Impulse current on 10/35 µs (kA)	Iscrr (kA)
DAC50S series	CIT821110xxx	230/400 VAC TT, TN or IT neutral system	20	50
DACFS25S series	CIT821410xxx	230/400 VAC TT, TN or IT neutral system	15	100
DACFS15S series	CIT821310xxx	230/400 VAC TT, TNS or IT neutral system	5	100



DAC50S

Other protection systems

Video surveillance



MJ8-POE-C6A

Access control



DLA

LED lighting



DLPM1-230L

Photovoltaic DC



DS50PV

A comprehensive offer

The Jay remote controls from Conductix-Wampfler enable reliable, high-performance remote control for many applications, even the most demanding.

Find a comprehensive offer: security and non security solutions, push-button or joystick remote controls, simple or interactive control, transmitters and receivers, etc.

Advantages

- ✓ Guaranteed robustness
- ✓ Adapted ergonomics
- ✓ Certified safety
- ✓ Easier maintenance

	Industrial remote controls	Safety remote controls				
	Orion range	UD range	Beta range	Gama range	Pika-Moka range	RadioSafe range
Control						
Direct	•	•				•
Advanced			•	ADVANCED • CONTROL	•	
Safety level						
SIL 2-PLd		•				
SIL 3-PLe			•	•	•	•
Environment						
ATEX			•	•	•	
Corrosive Metal dust				•		

Orion transmitters

	Industrial ⁽¹⁾	Industrial ⁽¹⁾ + "on/off" button	Multifunction ⁽²⁾	Multifunction ⁽²⁾ + "on/off" button
2	JAYOREV21SL1	JAYOREV22SL1		JAYOREL42SL1
4	JAYOREV41SL1	JAYOREV42SL1		JAYOREL62SL1
6			JAYOREL81SL1	JAYOREL82SL1
8				JAYORELD2SL1
12				
16			JAYORELH1SL1	

(1) Delivered with 2 AAA batteries. (2) Delivered with 3 AAA batteries. Can be used with 3 AAA rechargeable batteries. When equipped with AAA rechargeable batteries, these transmitters can be recharged directly on an **ORCL** charging cradle. The charging cradle is to be ordered separately.

Orion receivers

	DIN rail 12 VDC 24 VDC 24 VAC	Industrial small model 12 VDC 24 VDC 48 VAC	Industrial small model 115 VAC	Industrial small model 230 VAC	Industrial large model 12 VDC 24 VDC	Industrial large model 24 VAC 48 VAC	Industrial large model 115 VAC 230 VAC
2		JAYORRS21L1F		JAYORRS21L1U			
2+1 ⁽¹⁾	JAYORRD22L1C						
3							
4+1 ⁽¹⁾		JAYORRS42L1F	JAYORRS42L1T	JAYORRS42L1U			
8+1 ⁽¹⁾					JAYORRA82L14	JAYORRA82L1A	JAYORRA82L1B
16+1 ⁽¹⁾					JAYORRAH2L14	JAYORRAH2L1A	JAYORRAH2L1B

(1) "On" relay.

Additional accessories,
Contact us



Protection of machine power supplies

Modular type 2 secure system surge arrester according to EN61643-11

Reference	Application
DEH952330	For 400 V three-phase power supply - TNC neutral system
DEH952341	For 400 V three-phase + N power supply - TT/TNS neutral system



Protection of PLC power supplies

Modular Type 3 surge arrester according to EN61643-11

Reference	Application
DEH953200	For 230 VAC single-phase - 2 poles
DEH953201	For 24 VDC and AC single-phase - 2 poles



Data network protection

Reference	Application
DEH929121	For 230 VAC single-phase - 2 poles
DEH929044	For wireless network antenna

For interface/analogue/field bus signals



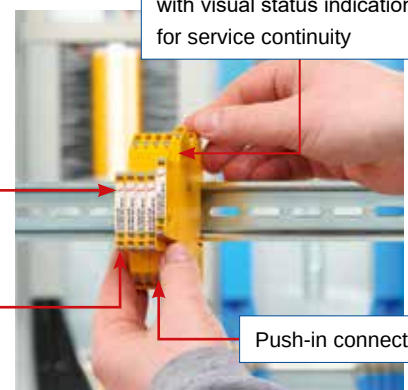
BLITZDUCTORconnect, space-saving overvoltage protection for processes

Reference	Application
DEH927224	Binary signal
DEH927271	RS485 - Profibus DP/FMS - MODBUS
DEH927222	Temperature measurement
DEH927244	0-20 mA / 4-20 mA

Very high total discharge capacity with a low voltage protection level

Sec-R release technology

Compact 6 mm protection with visual status indication for service continuity



Chronos 2 timer relay range

0.1 to 100 h time delay (EMER8 0.1 to 20 h)

1 or 2 CO outputs

Reference	Type	Functions	Output	Voltage	Format (mm)
CRO88827115	MAR1	Single-function A-At	1 x 8 A CO contact	24 VDC / 24 - 240 VAC	17.5
CRO88827135	MCR1	Single function C	1 x 8 A CO contact	24 VDC / 24 - 240 VAC	17.5
CRO88827155	MLR1	Single-function L-Li	1 x 8 A CO contact	24 VDC / 24 - 240 VAC	17.5
CRO88827105	MUR1	Multifunction	1 x 8 A CO contact	24 VDC / 24 - 240 VAC	17.5
CRO88827103	MUR3	Multifunction	1 x 8 A CO contact	12 - 240 VAC/DC	17.5
CRO88829198	EMER8 "Essential"	Multifunction	1 x 5 A CO contact	12 - 240 VDC / 24 - 240 VAC	17.5
CRO88827185	MXR1	Multifunction	1 x 8 A CO contact	24 VDC/24-240 VAC	17.5
CRO88827014	MAS5	Multifunction A	static 0.7 A	24-240 VAC/DC	17.5



CRO88827103

Syrline back panel-mount timer relay range

Time delay: 0.1 seconds to 240 hours (10 days)

Multifunction: 12 functions including remote-controlled switch and remote-controlled switch with timer

Reference	Type	Functions	Output	Voltage	Format (mm)
CROBM1R16MV1	BM1R	Multifunction	1 x 16 A CO contact	12 - 240 VAC/DC	17.5
CROBA1R16MV1	BA1R	Single-function A-At	1 x 16 A CO contact	12 - 240 VAC/DC	17.5
CROBL1R16MV1	BL1R	Single-function L-Li	1 x 16 A CO contact	12 - 240 VAC/DC	17.5
CROBM2R08MV1	BM2R	Multifunction	2 x 8 A CO contacts	12 - 240 VAC/DC	17.5
CRODZR08MV1	DZ1R	Super Multifunction Z	1 x 8 A CO contact	12-240 VAC/DC	17.5



CROBM1R16MV1



CRODZR08MV1

Front panel-mount timer relays:

CROGDF1R10MV2	GDF1	Multifunction F	1 x 10 A CO contact	24-240 VAC/DC	48
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CROGDF1R10MV2

C-Lynx control relays

Reference	Type	Functions	Output	Voltage	Format (mm)
Phase control					
CRO84873029	MWS	Sequence/Loss	1 x 8 A CO contact	208 - 480 VAC	17.5
CRO84873021	MWS2	Sequence/Loss	2 x 5 A CO contacts	208-440 VAC	17.5
Voltage control					
CRO84872120	HUL 0.2 to 60 VAC/DC	Over- and under-voltage	2 x 5 A CO contacts	24 - 240 VAC/DC	35
CRO84872130	HUH 15 to 600 VAC/DC	Over- and under-voltage	2 x 5 A CO contacts	24 - 240 VAC/DC	35
Current control					
CRO84871122	MIC 2 to 20 A	Current control	1 x 5 A CO contact	24 - 240 VAC/DC	35
CRO84871130	HIH 0.1 to 10 A	Current control	2 x 5 A CO contacts	24 - 240 VAC/DC	35
Level control					
CRO84870200	ENR 2/5 K Ω to 100 K Ω	Emptying/Filling	1 x 8 A CO contact	24 - 240 VAC/DC	22.5
CRO84870700	HNM 1 or 2/250 Ω to 1 M Ω	Emptying/Filling	1 x 8 A CO contact	24 - 240 VAC/DC	35



CRO84870700

Counters and tachometers

Reference	Type	Functions	Output	Format (mm)
24 x 48 counter without preselection				
CRO87622170	CTR24 - 2224 LCD Voltage/Contact	Hour counter	Lithium battery	24 x 48
CRO99772714	CHM48 Electromechanical	Hour counter	230 VAC	48 x 48
CRO87622061	CTR24 - 2241 LCD	Totaliser	Lithium battery	24 x 48
CRO87622070	CTR - 2242 LCD	Totaliser	Lithium battery	24 x 48



CRO87622081

Power supplies

110-240 VAC -> 24 VDC

Reference	Type
CRO89451001	10 W 24 VDC modular power supply
CRO89451003	30 W 24 VDC modular power supply
CRO89451006	60 W 24 VDC modular power supply
CRO89451010	100 W 24 VDC modular power supply



CRO89451001

Millenium Slim

Width 17.5 mm. 8 I/O: 4 ultra-configurable inputs (digital, analogue, high-speed counting, PWM)
Embedded Bluetooth: program transfer, retrieval of datalogs and communication with other Millenium Slim devices, display and control via the free Crouzet Virtual Display app.

Reference	Type
CRO88983901	Millenium Slim CB8R kit, 88983001 with connectors, 8 I/O, relay output, 24 VDC
CRO88983902	Millenium Slim CB8S kit, 88983002 with connectors, 8 I/O, relay output, 24 VDC
CRO88983903	Millenium Slim CB8R kit, 88983003 with connectors, 8 I/O, relay output, 110-240 VAC



CRO8898390x

Millenium 3

Up to 50 I/O. Digital and analogue management, communicating
Simple, user-friendly software

Reference	Type
CRO88970041	CD12 Essential with screen - 8 I/4 O, relay output, 24 VDC
CRO88970051	CD20 Essential with screen - 12 I/8 O, relay output, 24 VDC
CRO88970161	Expandable with XD26 Smart screen - 16 I/10 O, relay output, 24 VDC
CRO88974084	Millenium 3 Smart XD26 discovery kit - 16 I/10 O - 24 VDC (88974161 module + USB cable + software)
CRO88970109	USB PC connection cable



CRO88974041



CRO88974084

Millenium EVO

Digital and analogue management (up to 20 analogue inputs).
Modbus TCP/IP Ethernet version. Incident management by email (Ethernet version)
Datalog function: Logging of timestamped variables in CSV format (Excel)
New, even simpler and more user-friendly software version free to download

Reference	Type
CRO88975911	CD20 Essential with screen - 12 I/8 O, relay output, 24 VDC
CRO88975101	Expandable with XD26 Smart screen - 16 I/10 O, relay output, 24 VDC
CRO88975111	Millenium 3 Smart XD26 discovery kit - 16 I/10 O - 24 VDC (88974161 module + USB cable + software)



CROXDP24-E

Nano-PLC em4

Available in Ethernet and Alert versions
26 I/O: Configurable inputs (digital, analogue, high-speed, relay, static) and PWM outputs
Periodical event datalogs in .csv format accessible via email or FTP
Incident management (alarms, faults, overruns) by email (+ SMS in Alert version)
Alert version: Embedded 3G GSM Modem / Remote control by SMS
CROUZET SOFT software free to download

Reference	Type
CRO88981123	em4 alert 3G
CRO88981126	em4 alert 3G discovery kit with USB interface and standard antenna
CRO88981133	Nano-Plc Ethernet, B26-Et, 26 I/O, 24 VDC



CRO88981123

Crouzet Touch Human-Machine Interface

4.3, 7- and 10-inch screen range. Ethernet com. port, Modbus RTU RS485, Slin/Slout series
Intuitive configuration software free to download. Large object library, integrated simulation tool, etc.
Periodical incident datalogs in .csv format accessible via email or FTP.

Reference	Type
CRO88970523	CT104 Essential + M3 cable
CRO88970524	CT104 Essential
CRO88970564	CTP107-E Performance
CRO88970584	CTP110-E Performance



CRO88970564



CRO88970584



Pushbuttons, indicators, key switches, rotary switches, emergency stop buttons, USB - RJ45 wall bushings, etc.
Mounting in hole Ø16 mm, 22 mm or 30 mm, depending on the series.

Wall bushings

Ø22.5 hole, extra-flat flange, front with brushed silver appearance

Reference	Description
SGLRRJRJ45	front: RJ45 jack , rear: shielded cable (length 600 mm) with RJ45 plug
SGLRRJRJ45STB	RJ45 connector front + back, with screen
SGLRRJUSB	USB A connector, rear: cable 600 mm + USB A connector
SGLRRJUSBAA	USB A connector front + back
SGLRRJUSB3AA	USB 3.0 connector front + back

Also available with the following connectors: HDMI, USB-C, different jacks, etc. Contact us



SGLRRJRJ45STB



SGLSDAL22RR

Protection caps	
SGLKDPR22RR	Transparent, rigid, sealable. IP65/67
SGLAK22RRSW	Flexible, opaque black TPE. IP67
SGLSDAL22RR	Aluminium, to screw up. IP69K
SGLSDVA22RR	316L stainless steel, to screw up, IP69K

RFID system - an alternative to key switches

Ø22.3 / 30 mm cut-outs for mounting. IP65/69K

Electronic access control and management

RFID technology for 13.56 MHz

USB / RS232 data interface

Attractive design with status indication by LED possible



SHORTRON CONNECT series

Indicators, pushbuttons, emergency stops, rotary switches, Key switches with M12 connection

Ø22.5 mm mounting

IP65/67

Optional finish: Opaque, translucent + backlit, circular lighting design.

3 front finishes: black, silver or bright stainless steel

Reduced depth



NZM moulded case circuit breakers

Reference	Designation	Description
EAT000192014	NZMN2-VX63	63 A 3P circuit breaker Breaking capacity = 50 kA for cable protection
EAT000191629	NZMN2-VX160	160 A 3P circuit breaker Breaking capacity = 50 kA for cable protection
EAT000191630	NZMN2-VX250	250 A 3P circuit breaker Breaking capacity = 50 kA for cable protection
EAT000191604	NZMN3-VX630	630 A 3P circuit breaker Breaking capacity = 50 kA for cable protection
EAT000191642	NZMN2-4-VX100	63 A 4P circuit breaker Breaking capacity = 50 kA for cable protection
EAT000191643	NZMN2-4-VX160	200 A 4P circuit breaker Breaking capacity = 50 kA for cable protection
EAT000191645	NZMN2-4-VX250	250 A 4P circuit breaker Breaking capacity = 50 kA for cable protection
EAT000191492	NZMN3-4-VX630	630 A 4P circuit breaker Breaking capacity = 50 kA for cable protection
EAT000191441	NZMN4-4-VX1000	1000 A 4P circuit breaker Breaking capacity = 50 kA for cable protection
EAT000191445	NZMN4-4-VX1600	1600 A 4P circuit breaker Breaking capacity = 50 kA for cable protection
EAT000192105	NZMN2-PMX63	63 A 4P circuit breaker. Breaking capacity = 50 kA, integrated energy measurement
EAT000192107	NZMN2-PMX160	160 A 4P circuit breaker. Breaking capacity = 50 kA, integrated energy measurement
EAT000192322	NZMN3-PMX250	250 A 4P circuit breaker. Breaking capacity = 50 kA, integrated energy measurement

Available in 100 kA I_{dc} depending on the version, motor protection, generator protection and selective electromechanical or electronic protection.



NZMN2-VX250



NZMN3-PMX250

N moulded case switch-disconnectors

Reference	Designation	Description
EAT000281236	N1-160	160 A 3P switch disconnector. With tripping option
EAT000266010	N2-250	250 A 3P switch disconnector. With tripping option
EAT000266020	N3-630	630 A 3P switch disconnector. With tripping option
EAT000281254	N1-4-160	160 A 4P switch disconnector. With tripping option
EAT000266016	N2-4-250	250 A 4P switch disconnector. With tripping option
EAT000266024	N3-4-630	630 A 4P switch disconnector. With tripping option
EAT000266032	N4-4-1600	1600 A 4P switch disconnector. With tripping option



N1-160



N3-4-630

NZM N & PN accessories

Reference	Designation	Description
EAT000216376	M22-K10	1 NO contact
EAT000216378	M22-K01	1 NC contact
EAT000259763	NZM2/3-XA208-250AC/DC	230 VAC/DC shunt release for NZM2 and 3
EAT000259499	NZM2/3-XU208-250AC/DC	230 V AC/DC undervoltage release for NZM2 et 3
EAT000260174	NZM2-XTVDV	External padlockable black handle for NZM2
EAT000260180	NZM2-XTVDVR	External padlockable red and yellow handle for NZM2
EAT000261232	NZM1/2-XV4	400 mm shaft extension for NZM1 and 2

Find all the accessories for NZM, N & PN in the Eaton catalogue or on www.eaton.com.



NZM1 circuit breakers, 2, 3 and 4 up to 150 kA/1600 A

4 compact sizes

Available in three-pole and four-pole versions

Comprehensive range of accessories

Thermal-magnetic tripping technology available

Electronic trip units

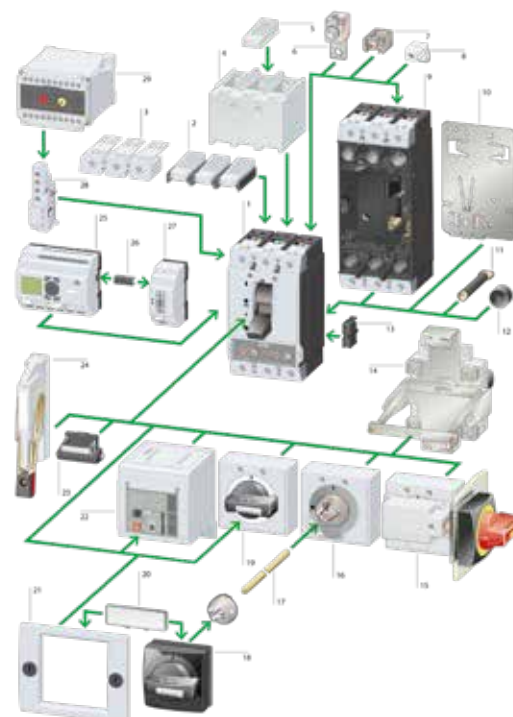
Residual-current trip units

UL/CSA compliant



NZMN3-4-AE630

NZMN4-4-AE1600



Motor circuit breakers PKZM0, PKZM4, NZM



Rotary control

DILM power contactors



The whole PKZ, PKE and DIL range is available with Push-in connection terminals

DIL-A auxiliary contactors



Motor power**	Designation	Reference	Designation (230/50 Hz)	Reference	Designation (24 VDC)	Reference
0.25 kW	PKZM0-1	EAT000072734	DILM7-10(..)	EAT000276550	DILM7-10(..)	EAT000276565
0.37 kW	PKZM0-1.6	EAT000072735	DILM7-10(..)	EAT000276550	DILM7-10(..)	EAT000276565
0.55 kW	PKZM0-1.6	EAT000072735	DILM7-10(..)	EAT000276550	DILM7-10(..)	EAT000276565
0.75 kW	PKZM0-2.5	EAT000072736	DILM7-10(..)	EAT000276550	DILM7-10(..)	EAT000276565
1.1 kW	PKZM0-4	EAT000072737	DILM7-10(..)	EAT000276550	DILM7-10(..)	EAT000276565
1.5 kW	PKZM0-4	EAT000072737	DILM7-10(..)	EAT000276550	DILM7-10(..)	EAT000276565
2.2 kW	PKZM0-6.3	EAT000072738	DILM7-10(..)	EAT000276550	DILM7-10(..)	EAT000276565
3 kW	PKZM0-10	EAT000072739	DILM7-10(..)	EAT000276550	DILM7-10(..)	EAT000276565
4 kW	PKZM0-10	EAT000072739	DILM9-10(..)	EAT000276690	DILM9-10(..)	EAT000276705
5.5 kW	PKZM0-12	EAT000278486	DILM12-10(..)	EAT000276830	DILM12-10(..)	EAT000276845
7.5 kW	PKZM0-16	EAT000046938	DILM15-10*(..)	EAT000290058	DILM15-10*(..)	EAT000290073
7.5 kW	PKZM0-16	EAT000046938	DILM17-10(..)	EAT000277004	DILM17-10(..)	EAT000277018
11 kW	PKZM0-25	EAT000046989	DILM25-10(..)	EAT000277132	DILM25-10(..)	EAT000277146
15 kW	PKZM0-32	EAT000278489	DILM32-10(..)	EAT000277260	DILM32-10(..)	EAT000277274
18.5 kW	PKZM4-40	EAT000222354	DILM40(..)	EAT000277766	DILM40(..)	EAT000277780
22 kW	PKZM4-50	EAT000222355	DILM50(..)	EAT000277830	DILM50(..)	EAT000277844
30 kW	PKZM4-58	EAT000222394	DILM65(..)	EAT000277894	DILM65(..)	EAT000277908
37 kW	NZMB1-M80	EAT000265713	DILM80(..)	EAT000239402	DILM80(..)	EAT000239416
45 kW	NZMB1-M100	EAT000265714	DILM95(..)	EAT000239480	DILM95(..)	EAT000239510
55 kW	NZMB1-M125	EAT000265715	DILM115(..)	EAT000239548	DILM115(..)	EAT000239555
75 kW	NZMB2-M160	EAT000265716	DILM150(..)	EAT000239588	DILM150(..)	EAT000239591

* Limited characteristics. ** Power 400V 3P-AC3.



Auxiliary contacts for PKZM0, PKZM4 and PKE

EAT000082882	NHI-E-11-PKZ0	EAT000072896	NHI11-PKZ0
EAT000082884	NHI-E-10-PKZ0	EAT000072895	NHI12-PKZ0
EAT000072894	NHI21-PKZ0		



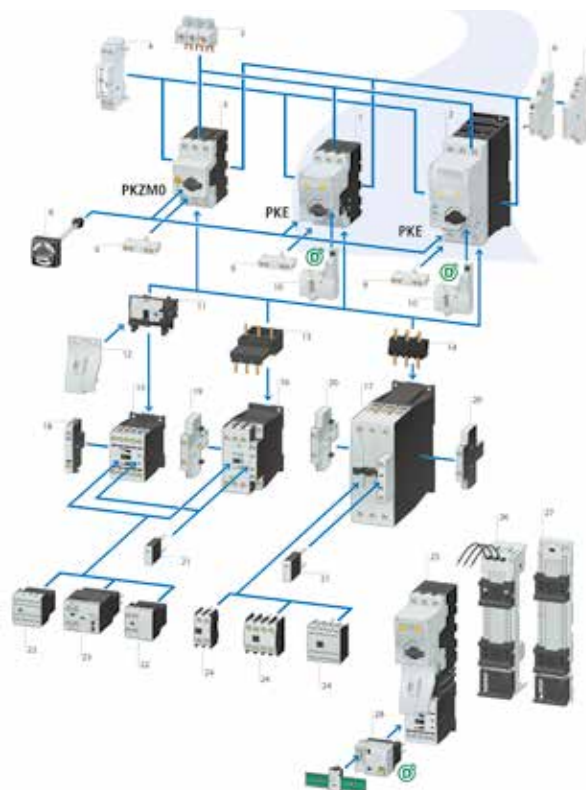
Wiring kit for direct starters

Designation	Reference	Use with	Contactor
MVS-LBM0-EM	EAT000220219	PKZM0, (PKZM01)	DIL(E)M
PKZM0-XDM15ME	EAT000179646	PKZM0, PKE12, PKE32	DILM7...DILM15
PKZM0-XDM12	EAT000283149	PKZM0, PKE12, PKE32	DILM(C)7...15
PKZM0-XM32DE	EAT000239349	PKZM0, PKE12, PKE32	DILM17...32
PKZM0-XDM32ME	EAT000190312	PKZM0, PKE12, PKE32	DILM17...38



Wiring kit for reversing starters

Designation	Reference	Use with	Contactor
KZM0-XRM1	EAT000283185	PKZM0, PKE12, PKE32	DILM7...15
PKZM0-XDM32ME	EAT000190312	PKZM0, PKE12, PKE32	DILM17...38
DILM32-XRL	EAT000283109		
DILM32-XVB	EAT000281227		



PKE motor circuit breakers

Protection of motors up to 65 A with wide-range electronic overload protection.

Modular design.

Motor power (kW)	Tripping adjustment range on overload	Base unit		Trip unit	
		Desig.	Reference	Designation	Reference
0.12	0.3 ... 1.2 A	PKE12	EAT000121721	PKE-XTU-1.2	EAT000121723
0.18					
0.25					
0.37					
0.37	1 ... 4 A	PKE12	EAT000121721	PKE-XTU-4	EAT000121724
0.55					
0.75					
1.1					
1.5					
1.5	3 ... 12 A	PKE12	EAT000121721	PKE-XTU-12	EAT000121725
2.2					
3					
4					
5.5					
4	8 ... 32 A	PKE32	EAT000121722	PKE-XTU-32	EAT000121726
5.5					
7.5					
11					
15					
11	16 ... 65 A	PKE65	EAT000138258	PKE-XTU-65	EAT000138259
15					
18.5					
22					
30					

Trip units for cable protection are available. Contact us.

3 base units + 5 trip units = current range up to 65 A



5 plug-in trip units up to 65 A in two versions



PKEs in conjunction with the SmartWire-DT are used to control the contactor and feed back current information, thermal images of the motor and type of fault, etc.

Switch-disconnectors

According to IEC/EN 602041-1: with red rotary handle and yellow locking ring, lockable in the "0" position

Emergency stop switch

Installation	Nbr poles	Designation	Reference	Designation
Flush-mounted	3 poles	Flush-mounted switch 3P – 20 A	EAT000038873	T0-2-1/E A/SVB
		Flush-mounted switch 3P – 25 A	EAT000041097	P1-25/E A/SVB
		Flush-mounted switch 3P – 32 A	EAT000081438	P1-32/E A/SVB
		Flush-mounted switch 3P – 63 A	EAT000031607	P3-63/E A/SVB
		Flush-mounted switch 3P – 100 A	EAT000074320	P3-100/E A/SVB
Surface-mounted	3 poles	Enclosed switch 3P – 20 A	EAT000207147	T0-2-1/I1/SVB
		Enclosed switch 3P – 25 A	EAT000207293	P1-25/I2/SVB
		Enclosed switch 3P – 32 A	EAT000207314	P1-32/I2/SVB
		Enclosed switch 3P – 63 A	EAT000207343	P3-63/I4/SVB
		Enclosed switch 3P – 100 A	EAT000207373	P3-100/I5/SVB



Accessories

Installation	Designation	Reference	Designation
Neutral conductor	For P1 switch disconnector, flush-mounted	EAT000000651	N-P1E
	For P1 switch disconnector, surface-mounted	EAT000000652	N-P1Z
	For P3 switch disconnector, flush-mounted	EAT000062432	N-P3E
	For P3 switch disconnector, surface-mounted	EAT000064805	N-P3Z
1 NO / 1 NC auxiliary contact	For P1 / P3 switch disconnector, flush-mounted	EAT000061813	HI11-P1/P3E
	For P1 / P3 switch disconnector, surface-mounted	EAT000062031	HI11-P1/P3Z

C curve modular circuit breakers

Reliable indication of the contact status by means of the mechanical indicator independent of the handle. Contact us for other curves.

Rating (A) Series NF EN60947-2 (kA)	Ph/N PLG6 6 10	Two-pole FAZ6-C**/2 6 10	Three-pole FAZ6-C**/3 6 10	Four-pole FAZ6-C**/4 6 10
2	EAT000264690	EAT000239097	EAT000239122	EAT000239192
4	EAT000264691	EAT000239099	EAT000239132	EAT000239194
6	EAT000264692	EAT000239100	EAT000239139	EAT000239199
10	EAT000264693	EAT000239101	EAT000239144	EAT000239204
16	EAT000264695	EAT000239103	EAT000239148	EAT000239216
20	EAT000264696	EAT000239104	EAT000239149	EAT000239219
25	EAT000264697	EAT000239105	EAT000239150	EAT000239220
32	EAT000264698	EAT000239106	EAT000239151	EAT000239221
40	EAT000264699	EAT000239107	EAT000239152	EAT000239222
50		EAT000239108	EAT000239153	EAT000239223
63		EAT000239109	EAT000239154	EAT000239224



Accessories

Designation	Nbr of modules	for PLG	for FAZ6
1 NO+1 NC auxiliary contact	0.5	EAT000248433	EAT000286052
2 CO auxiliary contact	0.5	EAT000248434	EAT000248437
Shunt release 12-110 VAC / 12-60 VDC	1	EAT000248286	EAT000248438
Shunt release 100-415 VAC / 110-220 VDC	1	EAT000248287	EAT000248439
Undervoltage release 230 VAC			EAT000248289



AC-type PBSM residual current devices to be combined with circuit breakers

Sensitivity (mA)	Rating (A)	Two-pole	Three-pole	Four-pole
30	40	EAT000262323	EAT000262537	EAT000266962
	63	EAT000262426	EAT000262556	EAT000266977
300	40	EAT000262325	EAT000262539	EAT000266964
	63	EAT000262428	EAT000262558	EAT000266979



PFGM RCDs

Type of trip unit	Rating (A)	Two-pole 30 mA	Four-pole 30 mA	Two-pole 300 mA	Four-pole 300 mA
AC type	25	EAT000264266	EAT000264294	EAT000264268	EAT000264296
	40	EAT000264280	EAT000264300	EAT000264282	EAT000264302
	63	EAT000264286	EAT000264306	EAT000264288	EAT000264308
A type	25	EAT000267441	EAT000267453	EAT000267443	EAT000267455
	40	EAT000267444	EAT000267457	EAT000267446	EAT000267459
	63	EAT000267448	EAT000267461	EAT000267451	EAT000267463

Available in G type super-immunised version.



FRBMM combined RCD/MCBs, C curve, AC type, 30 mA

Rating (A)	Two-pole 30 mA	Two-pole 300 mA	1 P + N (on right) 30 mA	1 P + N (on right) 300 mA
6	EAT000170721	EAT000170853	EAT000170534	EAT000170563
10	EAT000170722	EAT000170854	EAT000170535	EAT000170564
16	EAT000170724	EAT000170856	EAT000170537	EAT000170566
20	EAT000170725	EAT000170857	EAT000170538	EAT000170567
25	EAT000170726	EAT000170858	EAT000170539	EAT000170568



Z-SD230-BS socket

Rated current 16 A
French standard – 2P+Earth
Ref: EAT000266876



FRBdM combined RCD/MCBs, C curve, A type, 30 mA

LED display (Red, Yellow, Green) of the leakage current level ($> 50\%$, $30-50\%$, $< 30\% I_{\Delta n}$).

This type of circuit breaker is used to enable preventive maintenance and to ensure maximum continuity of service for your processes and installations.

Reference	Designation	Description
EAT000168201	FRBdM-C6/2/003-G/A	Combined RCD/MCB, 6 A 2P, C curve, 30 mA, A type
EAT000168202	FRBdM-C10/2/003-G/A	Combined RCD/MCB, 10 A 2P, C curve, 30 mA, A type
EAT000168204	FRBdM-C16/2/003-G/A	Combined RCD/MCB, 16 A 2P, C curve, 30 mA, A type
EAT000168205	FRBdM-C20/2/003-G/A	Combined RCD/MCB, 20 A 2P, C curve, 30 mA, A type
EAT000168206	FRBdM-C25/2/003-G/A	Combined RCD/MCB, 25 A 2P, C curve, 30 mA, A type


FRCdM RCDs, B, B+ and Bfq type, 30 mA and 300 mA

B type: Standard type sensitive to all residual currents up to 1 kHz (solar panels, batteries).

B+ type: Insensitive to high frequency earth leakage currents generated by the system up to 50 Hz. E.g. Three-phase motors, machine-tools with speed regulator.

Bfq type: For greater protection against fires (max. tripping current 420 mA for frequencies up to 20 kHz). E.g. Service station, biogas production.

Reference	Designation	Description
EAT000167892	FRCdM-25/4/003-G/B	Residual current device B type 25 A 4P 30 mA
EAT000167893	FRCdM-40/4/003-G/B	Residual current device B type 40 A 4P 30 mA
EAT000167896	FRCdM-25/4/03-G/B	Residual current device B type 25 A 4P 300 mA
EAT000167897	FRCdM-40/4/03-G/B	Residual current device B type 40 A 4P 300 mA
EAT000167880	FRCdM-25/4/003-G/B+	Residual current device B+ type 25 A 4P 30 mA
EAT000167884	FRCdM-25/4/03-G/B+	Residual current device B+ type 25 A 4P 300 mA
EAT000179530	FRCdM-25/4/003-G/Bfq	Residual current device Bfq type 25 A 4P 30 mA
EAT000167904	FRCdM-25/4/03-G/Bfq	Residual current device Bfq type 25 A 4P 300 mA


FRCmM RCDs, F type, 30 mA and 300 mA

Standard type for multi-frequency residual currents up to 1 kHz (IEC 62423).

Applications including devices and motors with single-phase variable frequency drives.

E.g. Heat pump, pump, ventilation system, welding equipment.

Reference	Designation	Description
EAT000187407	FRCMM-16/4/003-G/F	Residual current device F type 16 A 4P 30 mA
EAT000187408	FRCMM-25/4/003-G/F	Residual current device F type 25 A 4P 30 mA
EAT000187409	FRCMM-40/4/003-G/F	Residual current device F type 40 A 4P 30 mA
EAT000187419	FRCMM-16/4/03-G/F	Residual current device F type 16 A 4P 300 mA
EAT000187420	FRCMM-25/4/03-G/F	Residual current device F type 25 A 4P 300 mA
EAT000187421	FRCMM-40/4/03-G/F	Residual current device F type 40 A 4P 300 mA


PXS24 electronic circuit breakers, 24 VDC

Dedicated protection for 24 VDC application.

Modular system – Direct connection of 1 to 3 loads.

Available with or without communication terminals (Status: On/Off/Tripped + Reset remotely).

2 A to 16 A – Quick and easy installation with “push-in” terminals and busbars.

Reference	Designation	Description
EATPXS24E02A001	PXS24E-e2/F-IT	Electronic circuit breaker 24 VDC 2 A
EATPXS24E06A001	PXS24E-e6/F-IT	Electronic circuit breaker 24 VDC 6 A
EATPXS24E10A001	PXS24E-e10/F-IT	Electronic circuit breaker 24 VDC 10 A
EATPXS24S06A001	PXS24S-e6/F/ORT-IT	Communicating electronic circuit breaker 24 VDC 6 A
EATPXS24S10A001	PXS24S-e10/F/ORT-IT	Communicating electronic circuit breaker 24 VDC 10 A
EATPXS24S16A001	PXS24S-e16/F/ORT-IT	Communicating electronic circuit breaker 24 VDC 10 A



Pushbuttons, flat, spring return, IP67, IP69K

Colour	Designation	Reference	Designation	Reference
Blue	M22-D-B	EAT000216600	M22-DL-B	EAT000216931*
Green	M22-D-G	EAT000216596	M22-DL-G	EAT000216927*
Red	M22-D-R	EAT000216594	M22-DL-R	EAT000216925*
Black	M22-D-S	EAT000216590		
White	M22-D-W	EAT000216592	M22-DL-W	EAT000216922*
Yellow	M22-D-Y	EAT000216598	M22-DL-Y	EAT000216929*
Inscribed with "0" on red background	M22-D-R-X0	EAT000216605	M22-DL-R-X0	EAT000216936*
Inscribed with "1" on green background	M22-D-G-X1	EAT000216607	M22-DL-G-X1	EAT000216938*

* illuminated



Flat, illuminated indicators, IP67, IP69K

Colour	Reference	Designation
White	EAT000216771	M22-L-W
Blue	EAT000216775	M22-L-B
Yellow	EAT000216774	M22-L-Y
Red	EAT000216772	M22-L-R
Green	EAT000216773	M22-L-G



M22-L-R

Rotary switches, IP66

Function	Reference	Designation
2 30° latched positions	EAT000216867	M22-WRK
2 60° latched positions	EAT000216874	M22-WKV
3 latched positions	EAT000216872	M22-WRK3

Available in an illuminated version and other combinations. Contact us.



M22-WRK

Buttons with keys, IP66

Function	Reference	Designation
Latching button with key, 2 positions	EAT000216887	M22-WRS
Latching button with key, 3 positions	EAT000216900	M22-WRS3

Available in other combinations. Contact us..



M22-WRS

Emergency stop button with key, IP66

Function	Reference	Designation
Emergency stop button	EAT000216876	M22-PV
Emergency stop button, turn-to-release	EAT000263467	M22-PVT
Key-operated emergency stop button	EAT000216879	M22-PVS



M22-PVT

Audible alarms, IP40

Function	Reference	Designation
Audible alarms, IP40	EAT000229015	M22-AMC
Buzzer, 18-30 V, pulsed tone for M22-AMC	EAT000229028	M22-XAMP
Buzzer, 18-30 V, continuous tone for M22-AMC	EAT000229025	M22-XAM



M22-AMC

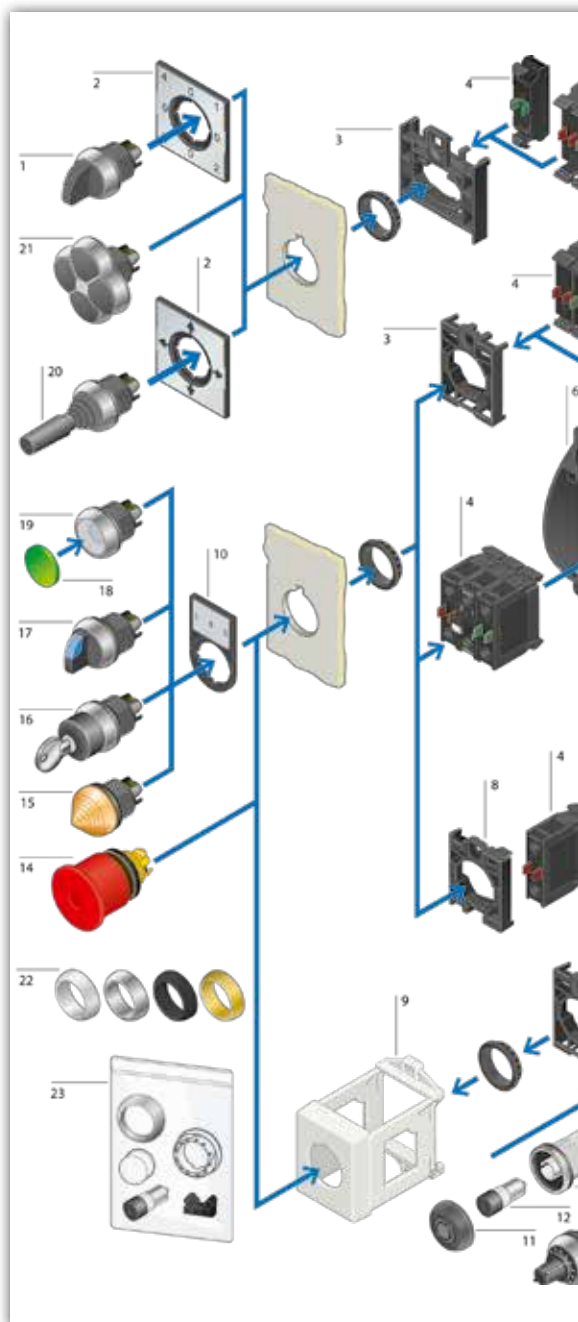
Potentiometers, IP66

Function	Reference	Designation
100 k potentiometer	EAT000229493	M22-R100K
10 k potentiometer	EAT000229491	M22-R10K
1 k potentiometer	EAT000229489	M22-R1K

Available in other values. Contact us..



M22-R10K



M30C-FDL-R

M30C-FD-G

New range of flat buttons with 30 mm diameter and metal and stainless steel flange. Compatible with all the accessories in the Standard RMQ range (M22). All the variants (pushbutton, indicator, potentiometer, etc.) are available.

Accessories for buttons and indicators in the RMQ-Titan range. Fastening adapters and empty casings

Function	Reference	Designation
Mounting adapter. Front mounting for 4 contact elements, 4 mounting positions	EAT000279437	M22-A4
Mounting adapter	EAT000216374	M22-A
IVS top-hat rail adapter	EAT000216400	M22-IVS
Label holder	EAT000216392	M22S-ST-X
Blank label	EAT000216480	M22-XST



M22-A

Empty casings

Buttons	Surface-mounted casing		Flat casing	
	Reference	Designation	Reference	Designation
1	EAT000216535	M22-11	EAT000197230	M22-FI1
2	EAT000216537	M22-12	EAT000197232	M22-FI2
3	EAT000216538	M22-13	EAT000197233	M22-FI3
4	EAT000216539	M22-14	EAT000197234	M22-FI4
1 (Yellow)	EAT000216536	M22-IY1	EAT000197231	M22-FIY1



M22-13



M22-FI2

LED elements, front mounting, screw connection

Colour	Voltage 12-30 VAC/DC		Voltage 85-264 VAC/DC		Voltage 12-30 VAC/DC	
	Reference	Designation	Reference	Designation	Reference	Designation
Blue	EAT000218057	M22-LED-B	EAT000218059	M22-LED230-B	EAT000180796	M22-FLED-B
Green	EAT000216559	M22-LED-G	EAT000216565	M22-LED230-G	EAT000180797	M22-FLED-G
Red	EAT000216558	M22-LED-R	EAT000216564	M22-LED230-R	EAT000180798	M22-FLED-R
White	EAT000216557	M22-LED-W	EAT000216563	M22-LED230-W	EAT000180795	M22-FLED-W
Red, Green, Yellow					EAT000180799	M22-FLED-RG
Red, Green, Yellow, White, Blue, Purple, Turquoise blue					EAT000180800	M22-FLED-RG

Light-emitting diodes consume very little current, generate little heat, have a life-time equivalent to that of the machine and are completely resistant to vibrations.

LED elements, rear mounting, screw connection

Colour	Voltage 12-30 VAC/DC		Voltage 85-264 VAC/DC	
	Reference	Designation	Reference	Designation
Blue	EAT000218058	M22-LEDC-B	EAT000218060	M22-LEDC230-B
Green	EAT000216562	M22-LEDC-G	EAT000216568	M22-LEDC230-G
Red	EAT000216561	M22-LEDC-R	EAT000216567	M22-LEDC230-R
White	EAT000216560	M22-LEDC-W	EAT000216566	M22-LEDC230-W



M22-LEDC-G

Contact blocks

	Front fastening (front mounted)		Rear fastening (rear-mounted)	
	Reference	Designation	Reference	Designation
NORMALLY open	EAT000216376	M22-K10	EAT000216380	M22-KC10
NORMALLY closed	EAT000216378	M22-K01	EAT000216382	M22-KC01



M22-KC01

Flat contact blocks

	Front fastening (front mounted)	
	Reference	Designation
NORMALLY open	EAT000180792	M22-FK10
NORMALLY closed	EAT000180791	M22-FK01



M22-FK10

M22-FK01

RJ45 sockets + USB sockets

Designation	Reference	Designation
USB 2 socket with connection cable	EAT000107412	M22-USB-SA
RJ45 female socket	EAT000107413	M22-RJ45-SA



M22USB

M22RJ45

RMQ Compact solution, emergency stop IP65, IP69K with M12 cable

Designation	Reference	Designation
Pull-to-release, 0.2 m cable, M12A connector	EAT000185184	C22-PV-K02-P 10
Turn-to-release, large, 0.2 m cable, M12A connector	EAT000185183	C22-PVT45P-K02-P10
Pull-to-release, 1 m cable, no connector fitted	EAT000185169	C22-PV-K02-P62
Turn-to-release, 1 m cable, no connector fitted	EAT000185176	C22-PVT-K02-P62
Turn-to-release, large, 1 m cable, no connector fitted	EAT000185155	C22-PVT45P-K02-P62



C22-PV-K02-P 10

4 CO plug-in industrial relays - 55 Series

Relay with test button and mechanical indicator.

Versions with LED and other voltages available.

Reference	Voltage	Contact	Current
FIN553480120040	12 VAC	4 CO	7 A
FIN553480240040	24 VAC	4 CO	7 A
FIN553480480040	48 VAC	4 CO	7 A
FIN553481100040	110 VAC	4 CO	7 A
FIN553482300040	230 VAC	4 CO	7 A
FIN553490120040	12 VDC	4 CO	7 A
FIN553490240040	24 VDC	4 CO	7 A
FIN553490480040	48 VDC	4 CO	7 A
FIN553491100040	110 VDC	4 CO	7 A



FIN55348xxx

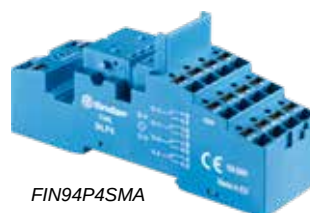


FIN55349xxx

Sockets and accessories for 55 Series relays

Sockets with plastic retaining clip available.

Reference	Designation
FIN9404SMA	Socket with screw terminals (box clamp), metal retaining clip
FIN94P4SMA	Socket with automatic "push-in" type terminals, metal retaining clip
FIN094521	2-pole jumper for 94P4 socket



FIN94P4SMA



FIN094521

1 or 2 CO relay for printed circuits - 40 Series

Other voltages available.

Reference	Voltage	Contact	Current
FIN405182300000	230 VAC	1 CO	10 A
FIN405190120000	12 VDC	1 CO	10 A
FIN405190240000	24 VDC	1 CO	10 A
FIN405282300000	230 VAC	2 CO	8 A
FIN405290120000	12 VDC	2 CO	8 A
FIN405290240000	24 VDC	2 CO	8 A
FIN406182300000	230 VAC	1 CO	16 A
FIN406190120000	12 VDC	1 CO	16 A
FIN406190240000	24 VDC	1 CO	16 A



FIN405xxx

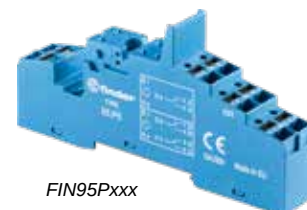


FIN406xxx

Sockets and accessories for 40 Series relays

Sockets with metal retaining clip available.

Reference	Designation
FIN9505SPA	Socket with screw terminals (box clamp), plastic retaining and release clip
FIN95P5SPA	Socket with automatic "push-in" type terminals, plastic retaining and release clip
FIN09742	2-pole jumper for 95P5 socket, 4.6 mm spacing
FIN09752	2-pole jumper for 95P5 socket, 12.5 mm spacing



FIN95Pxxx



FIN09752

Industrial relays for socket mounting or direct connection via Faston terminals - 46 Series

Relay with test button and mechanical indicator. Versions with LED and other voltages available.

Reference	Voltage	Contact	Current
FIN465280240040	24 VAC	2 CO	8 A
FIN465282300040	230 VAC	2 CO	8 A
FIN465290240040	24 VDC	2 CO	8 A
FIN466180240040	24 VAC	1 CO	16 A
FIN466182300040	230 VAC	1 CO	16 A
FIN466190240040	24 VDC	1 CO	16 A

Accessories

FIN9701SPA	Socket with screw terminals (box clamp), plastic retaining and release clip for 46.61 relay
FIN9702SPA	Socket with screw terminals (box clamp), plastic retaining and release clip for 46.52 relay
FIN97P1SPA	Socket with automatic "push-in" type terminals, plastic retaining and release clip for 46.61 relay
FIN97P2SPA	Socket with automatic "push-in" type terminals, plastic retaining and release clip for 46.52 relay
FIN09752	2-pole jumper for 97P1 and 97P2 sockets



FIN4652xxx



FIN4661xxx



FIN97Pxxx



FIN09752

Modular relay interfaces, width 6.2 mm - 39 Series

Interfaces with automatic terminals.

Versions with screw terminals (box clamp) and other voltages available.

Reference	Voltage	Contact	Current
Electromechanical relay (EMR)			
FIN390100240060	24 VAC/DC	1 CO	6 A
FIN390182300060	230 VAC	1 CO	6 A
Solid state relays (SSR)			
FIN390070248240	24 VDC	1 NO	6 A
FIN390070249024	24 VDC	1 NO	6 A
Accessories			
FIN09316	16-pin blue comb (black: 09316.0; red: 09316.1)		
FIN09360	Plastic separator		
FIN09362	Terminal duplicator for 39.01 and 39.00 interfaces		



FIN3901xxx



FIN09360



FIN09316



FIN09362

LED lights for electrical cabinets - 7L Series

Magnetic mounting or screw mounting on the cabinet.

1200 lumens, 9 W versions available: 7L.46 types.

Reference	Designation
600 lumens, 6 W, 12...48 VAC/DC	
FIN7L4300240100	Door contact switch - Automatic terminals
FIN7L4300240200	Door contact switch - Plug-in connector
FIN7L4300241100	ON/OFF switch - Automatic terminals
FIN7L4300241200	ON/OFF switch - Plug-in connector
FIN7L4300242100	Motion sensor - Automatic terminals
FIN7L4300242200	Motion sensor - Plug-in connector
600 lumens, 6 W, 110...230 VAC/DC	
FIN7L4302300100	Door contact switch - Automatic terminals
FIN7L4302300200	Door contact switch - Plug-in connector
FIN7L4302301100	ON/OFF switch - Automatic terminals
FIN7L4302301200	ON/OFF switch - Plug-in connector
FIN7L4302302100	Motion sensor - Automatic terminals
FIN7L4302302200	Motion sensor - Plug-in connector
Accessories	
FIN07L11	Female connector for flexible cable, 2 poles
FIN07L12	Male connector for flexible cable, 2 poles



FIN7Lxxx



FIN07L11



FIN07L12

Safety relay for printed circuit boards - 50 Series

Other voltages and contact configurations available.

Reference	Voltage	Contact	Current
FIN501290121000	12 VDC	2 CO	8 A
FIN501290241000	24 VDC	2 CO	8 A
FIN501490244220	24 VDC	2 NO + 2 NC	8 A
FIN501490244310	24 VDC	3 NO + 2 NC	8 A
FIN501690245420	24 VDC	4 NO + 2 NC	8 A



5012



5016

Modular safety relays - 7S Series

Class A (EN 50205). Other voltages and contact configurations available.

Reference	Voltage	Contact	Current
Spring-loaded terminals			
FIN7S1290245110	24 VDC	1 NO + 1 NC	6 A
FIN7S1490244220	24 VDC	2 NO + 2 NC	6 A
FIN7S1490244310	24 VDC	3 NO + 1 NC	6 A
FIN7S1690245420	24 VDC	4 NO + 2 NC	6 A
FIN7S4390240211 (SIL 3)	24 VDC	2 NO + 1 NC	6 A
Screw terminals (box clamp)			
FIN7S2390240210	24 VDC	2 NO + 1 NC	10 A
FIN7S3290245110	24 VDC	1 NO + 1 NC	6 A
FIN7S3490244220	24 VDC	2 NO + 2 NC	6 A
FIN7S3490244310	24 VDC	3 NO + 1 NC	6 A
FIN7S3690245420	24 VDC	4 NO + 2 NC	6 A
FIN7S6390240211 (SIL 3)	24 VDC	2 NO + 1 NC	6 A



7S43



7S63

Phase monitoring relays - 70 Series

Reference	Function
FIN703184002022	Phase rotation and loss, undervoltage/overvoltage 400 V 1 CO 6 A
FIN706184000000	Phase rotation and loss, 200 to 480 V 50/60 Hz



7031



7061

Modular relays for level monitoring - 72 Series

Reference	Function
24 VAC	
FIN720180240000	Adjustable sensitivity 5...150 kΩ
24 VDC	
FIN720190240000	Adjustable sensitivity 5...150 kΩ
240 VAC	
FIN720182400000	Adjustable sensitivity 5...150 kΩ
FIN720182400002	Adjustable sensitivity 5...450 kΩ
Accessories	
FIN07211	Floor water sensor
FIN072500	Electrode - Length 475 mm, M4 thread, stainless steel
FIN072501	Connector for electrode - M4 thread, stainless steel
FIN07251	Single-probe electrode holder



7201



7211



072500 - 072501



7251

Smart energy meters - 7M series

Meters with S0 pulse output. M-Bus and Modbus versions available.

References	Functions
FIN7M2482300001	230 VAC single-phase meter. 5 A rated current (40 max.)
FIN7M2482300010	230 VAC single-phase meter. 5 A rated current (40 max.) MID certified
NFC programming via smartphone	
FIN7M2482300110	230 VAC single-phase meter. 5 A rated current (40 max.) IR communication port. MID certified
FIN7M3884000112	3 or 4 wire three-phase meter. 5 A rated current (80 max.) IR communication port. MID certified



7M24



7M38

Modular pluggable timer relays, width 17.5 mm - 80 Series

0.1 seconds to 24 hours.

Reference	Designation	Voltage	Contact	Current
FIN800102400000	Multifunction (AI, BE, DI, SW, CE, DE)	12...240 VAC/DC	1 CO	16 A
FIN801102400000	On-delay (AI)	24...240 VAC/DC		
FIN802102400000	Interval (DI)	24...240 VAC/DC		
FIN804102400000	Off-delay with control signal (BE)	24...240 VAC/DC		
FIN809102400000	Asymmetrical flasher (LI, LE)	12...240 VAC/DC		



FIN80xxx

Modular pluggable timer relays, width 22.5 mm - 83 Series

0.05 seconds to 10 days.

Reference	Designation	Voltage	Contact	Current
FIN830102400000	Multifunction (AI, DI, GI, SW, BE, CE, DE, WD)	24...240 VAC/DC	1 CO	16 A
FIN830202400000	Multifunction (AI, DI, GI, SW, BE, CE, DE, WD)		2 CO	12 A
FIN836202400000	Mono-function (BI)		2 CO	8 A
FIN839102400000	Asymmetrical flasher (LI, LE, PI, PE)		1 CO	16 A



FIN83xxx

Modular digital timer relays - 84 Series

Simplified programming from a smartphone and NFC technology.

2 independently programmable channels.

Reference	Designation	Voltage	Contact	Current
FIN840200240000	30 functions	12...24 VAC/DC	2 CO	16 A
FIN840202300000	30 functions	110...230 VAC/DC	2 CO	16 A



FIN84xxx

Pluggable timer relays - 85 Series

0.05 seconds to 100 hours.

Mounting on 90-94 type sockets.

Reference	Designation	Voltage	Contact	Current
FIN850200240000	Multifunction (AI, DI, SW, GI)	24 VAC/DC	2 CO	10 A
FIN850282400000		230...240 VAC	2 CO	10 A
FIN850400240000		24 VAC/DC	4 CO	7 A
FIN850482400000		230...240 VAC	4 CO	7 A



FIN85xxx

Timer modules - 86 Series

0.05 seconds to 100 hours.

Mounting on 96-97 type sockets.

Reference	Designation	Voltage
FIN860002400000	Multifunction (AI, DI, SW, BE, CE, DE, EE, FE)	12...240 VAC/DC
FIN863000240000	Bi-function (AI, DI)	12...24 VAC/DC
FIN863082400000	Bi-function (AI, DI)	230...240 VAC



FIN86xxx

Mechanical clocks - 12 Series

Reference	Designation	Installation	Voltages	Contacts	Current
FIN120182300000	Daily time setting • No prog.: 30 mins.	Rail-mounted	230 VAC	1 CO	16 A
FIN121182300000	Daily time setting • No prog.: : 15 mins.	Rail-mounted		1 NO	
FIN123182300000	Daily time setting	Front panel-mounted		1 CO	
FIN123182300007	Weekly time setting.	Front panel-mounted		1 CO	



FIN1211

Digital clocks - 12 Series

Simplified programming from a smartphone and NFC technology

Reference	Designation	Voltages	Contacts	Current
FIN125182300000	Digital weekly • No prog.: 30 mins.	110 to 230 VAC/DC	1 CO	16 A
FIN126182300000	Digital weekly • No prog.: 1 min	110 to 230 VAC/DC	1 CO	16 A
FIN126282300000	Digital weekly • No prog.: 1 min	110 to 230 VAC/DC	2 CO	16 A
FIN128182300000	Astro daily	110 to 230 VAC/DC	1 CO	16 A
FIN12A182300000	Astro weekly • No prog.: 1 min	110 to 230 VAC/DC	1 CO	16 A
FIN12A282300000	Astro weekly • No prog.: 1 min	110 to 230 VAC/DC	2 CO	16 A



FIN1251



FIN12A2

Motion and presence sensors - 18 Series

Bluetooth, KNX and DALI versions available.

Reference	Designation	Voltages	Contacts	Current
Motion sensors				
FIN181182300000	Outdoor wall mounting (IP54)	120...230 VAC	1 NO	10 A
FIN183182300000	Indoor flush-mounting	120...230 VAC	1 NO	10 A
FIN183182300300	Indoor flush-mounting voltage-free contact	120...230 VAC	1 NO	10 A
FIN18A182300000	Outdoor wall mounting (IP55) Automatic terminals	110...230 VAC	1 NO	10 A
Presence sensor				
FIN185182300300	Indoor flush-mounted or surface-mounted	110...230 VAC	1 NO	10 A



FIN1831



FIN1851

Modular contactors - 22 Series

Other voltages and contact configurations available.

Reference	Designation	Voltages	Current
25 A contactors - Mechanical indicator + LED			
FIN223200244320	24 VAC/DC	2 NO	25 A
FIN223202304320	230 VAC/DC	2 NO	25 A
FIN223400244320	24 VAC/DC	4 NO	25 A
25 A contactors - Mechanical indicator + LED + manual selector			
FIN223200244340	24 VAC/DC	2 NO	25 A
FIN223202304340	230 VAC/DC	2 NO	25 A
FIN223400244340	24 VAC/DC	4 NO	25 A
32 A contactors - Mechanical indicator			
FIN227202301310	230 VAC/DC	2 NO	32 A
FIN227200241517 (Safety application)	24 VAC/DC	1 NO + 1 NC	32 A
FIN227400241310	24 VAC/DC	4 NO	32 A
FIN227402301310	230 VAC/DC	4 NO	32 A
40 A contactors - Mechanical indicator			
FIN224400244310	24 VAC/DC	4 NO	40 A
FIN224402304310	230...240 VAC/DC	4 NO	40 A
63 A contactors - Mechanical indicator			
FIN226400244310	24 VAC/DC	4 NO	63 A
FIN226402304310	230...240 VAC/DC	4 NO	63 A
FIN226402304610	230...240 VAC/DC	2 NO + 2 NC	63 A



FIN2232-4320



FIN2232-4340



FIN2272



FIN2244



FIN2264

**DRL Series - Modular Class II - Single-phase, 85-264 VAC**

IEC/EN/CSA/UL62368-1 - UL508 - UL1310

ErP compliant. Operation up to 70°C. 3-year warranty

Model	Output	Adjustment	Current	Dimensions (mm)
LAMDRL10-24-1	24 V	fixed	0.42 A	18 x 91 x 55.6
LAMDRL30-24-1	24 V	24 - 28 V	1.25 A	36 x 91 x 55.6
LAMDRL60-24-1	24 V	24 - 28 V	2.5 A	54 x 91 x 55.6
LAMDRL100-24-1	24 V	24 - 28 V	4.2 A	72 x 91 x 55.6

Other output voltages possible.

**DRB Series - Single-phase input, 85-264 VAC (300 VAC 5 seconds)**

IEC/EN/CSA/UL62368-1 - UL508 - UL1310 (< 120 W)

High efficiency. Operation up to 70°C. 3-year warranty

Model	Output	Adjustment	Current	Dimensions (mm)
LAMDRB15-24-1	24 V	24-28 V	0.63 A	18 x 75 x 90
LAMDRB30-24-1	24 V	24 - 28 V	1.25 A	21 x 75 x 90
LAMDRB50-24-1	24 V	24 - 28 V	2.1 A	21 x 75 x 90
LAMDRB100-24-1	24 V	24 - 28 V	4.2 A	45 x 75 x 100
LAMDRB120-24-1	24 V	24 - 28 V	5 A	35 x 124 x 125
LAMDRB240-24-1	24 V	24 - 28 V	10 A	41 x 124 x 125
LAMDRB480-24-1	24 V	24 - 26.4 V	20 A	84 x 124 x 125

Other output voltages possible.

**DRB Series Three-phase 3 x 350..575 VAC**

All models are available with screw connection A0 or push-in connection A1.

Model	Output	Adjustment	Current	Dimensions (mm)
LAMDRB120-24-3-A0	24 V	22.5-29 V	20 A	65 x 129 x 149
LAMDRB240-24-3-A0	24 V	22.5-29 V	10 A	65 x 129 x 149
LAMDRB480-24-3-A0	24 V	22.5-29 V	20 A	65 x 129 x 149
LAMDRB960-24-3-A0	24 V	22.5-29 V	40 A	100 x 129 x 159
LAMDRB120-24-3-A1	24 V	22.5-29 V	20 A	65 x 129 x 149
LAMDRB240-24-3-A1	24 V	22.5-29 V	10 A	65 x 129 x 149
LAMDRB480-24-3-A1	24 V	22.5-29 V	20 A	65 x 129 x 149
LAMDRB960-24-3-A1	24 V	22.5-29 V	40 A	100 x 129 x 159

Other output voltages possible.

**DPX Series - DC/DC converters**

EN55022 Class B - EN61000-4-2,3,4,5,6

Wide input range available from 9.5 V-36 VDC and 18 - 75 VDC

Power of 15 W, 20 W, 30 W, 40 W and 60 W

Output voltages available: 3.3 VDC, 5 VDC, 12 VDC, 15 VDC, +/-5 V, +/-12 V, +/-15 V





Switch-disconnectors

		Flush-mounted, 4 screws	Flush-mounted, central fastening	Enclosed
20 A	2 poles	KNA013756	KNA013807	
	3 poles	KNA010493	KNA010530	KNA067732
	4 poles	KNA012312	KNA012619	KNA068609
25 A	3 poles	KNA000432	KNA000890	KNA067770
	4 poles	KNA002238	KNA002696	KNA068685
32 A	3 poles	KNA000449	KNA000906	KNA067787
	4 poles	KNA002245	KNA002702	KNA068708
40 A	3 poles	KNA000456	KNA100330	KNA067794
	4 poles	KNA002252	KNA066711	KNA068722
63 A	3 poles	KNA000463	KNA100590	KNA067800
	4 poles	KNA002269	KNA089093	KNA068746
80 A	3 poles	KNA000470	KNA100835	KNA074556
	4 poles	KNA002276	KNA089116	KNA074631
100 A	3 poles	KNA000487	-	KNA074570
	4 poles	KNA002283	-	KNA074655
125 A	3 poles	KNA114153	-	KNA067893
	4 poles	KNA114177	-	KNA068920

Compliant with standard IEC 947-3. They combine breaking/making and isolation. In addition to the models opposite, we also offer emergency stop models (red/yellow) with and without enclosures, main switches (black/white), door coupling handle, etc. This range covers 16 to 315 A and up to 8 poles. Contact us for further information.



Undervoltage release switches

		3 poles	4 poles	4 poles, enclosed
20 A	48 x 48	KNA106462	KNA106479	KNA910405
25 A	48 x 48	KNA106523	KNA106530	
32 A	48 x 48	KNA106585	KNA106592	
40 A	64 x 64	KNA031924	KNA031931	
63 A	64 x 64	KNA031948	KNA031955	

The models available have a red/yellow padlockable handle with a 230/380 V dual voltage undervoltage release independent of the frequency. Contact us for further information.



Cam switches

		10A -CA4 - 30x30	20A -CA10 - 48x48	25A -CA20 - 48x48	32A -CA25 - 48x48
On/Off	60°/2 poles	KNA017621	KNA109326	KNA109364	KNA109401
	60°/3 poles	KNA017638	KNA109333	KNA109371	KNA109418
Double-throw with "Off"	60°/2 poles	KNA017669	KNA109005	KNA109043	KNA109081
	60°/3 poles	KNA017676	KNA109012	KNA109050	KNA109098
Double-through without "Off"	60°/2 poles	KNA017706	KNA109166	KNA109203	KNA109241
	60°/3 poles	KNA017713	KNA109173	KNA109210	KNA109258
3-position selector with "Off"	45°/1 pole	KNA017768	KNA108862	KNA108893	KNA108923
	45°/2 poles	KNA103959	KNA108879	KNA108909	KNA108930
Voltmeter	Between phases	KNA097166	KNA108602	-	-
	Between phases and phases/neutral	KNA097272	KNA108640	-	-
Ammeter	3 current transformers with "Off"	KNA017607	KNA108664	-	-
Encoder	0-7 over 360°	KNA106059	KNA108541	-	-
Starter	Star/Delta	-	KNA108695	KNA108749	KNA108794
	Dalhandler 2V/1E	-	KNA108701	KNA108756	KNA108800
Motor reversing	Three-phase motor	-	KNA108725	KNA108770	KNA108824

The range covers up to 315 A and has many other standard configurations. We can also produce your specific configurations. Contact us for further information.

Enclosure for food industry

316L stainless steel local enclosure

Also available with emergency stop button

	3 poles	3 poles + pre-load break	4 poles	4 poles + pre-load break	6 poles	6 poles + pre-load break
20 A	KNAIK1020	KNAIK1025	KNAIK1028	KNAIK1032	-	-
25 A	KNAIK2035	KNAIK2040	KNAIK2044	KNAIK2049	KNAIK2052	KNAIK2056
32 A	KNAIK3059	KNAIK3064	KNAIK3068	KNAIK3073	KNAIK3076	KNAIK3080
40 A	KNAIK4083	KNAIK4088	KNAIK4092	KNAIK4097	KNAIK4100	KNAIK4104
63 A	KNAIK6107	KNAIK6112	KNAIK6116	KNAIK6121	KNAIK6124	KNAIK6128
80 A	KNAIK8131	KNAIK8136	KNAIK8140	KNAIK8145	KNAIK8148	KNAIK8152
100 A	KNAIK0155	KNAIK0160	KNAIK0164	KNAIK0169	KNAIK0172	KNAIK0176
125 A	KNAIK9179	KNAIK9184	KNAIK9188	KNAIK9193	-	KNAIK9200
160 A	-	KNAIK0203	-	KNAIK0208	-	KNAIK0212
200 A	-	KNAIK0217	-	KNAIK0220	-	-
250 A	-	KNAIK0224	-	KNAIK0227	-	-
315 A	-	KNAIK0232	-	KNAIK0236	-	-



In the Kraus & Naimer range, you will also find:

Photovoltaic applications:

Kraus & Naimer offer a comprehensive range of switch-disconnectors for photovoltaic applications.

Modular execution or door coupling handles, IP20, shunts delivered mounted for the manufacturer's warranty and DC breaking capacity (DC marking according to UTE 15-712-1).

Unit lockout switches

Thanks to its 4 contacts per level, the A-series is ideal to satisfy the requirements of the unit lockout switch function: Compactness, up to 80 contacts (subject to study), locking device (padlock or keys), metal shaft and and/or reinforced bearing.

On request.



Turn - Push - Light

Kraus & Naimer has revolutionised the T.P.L. function with a three-dimensional cam which makes it possible to have a Turn function, a Push function and a Push/Turn function in the same stage. Equipped with its light device, this T.P.L. is very compact and stylish with finger-safe terminals (IP20 - no need for terminal covers), and it satisfies the requirements of a wide range of routine applications.

Changeover or By-pass switches

Kraus & Naimer offer single-pole, three-pole and four-pole changeover switches from 10 to 315 A with insulation voltages up to 1000 V.

Many versions are available, including the emergency stop with its padlockable red and yellow handle.

Kraus & Naimer also offer By-pass switches up to 2400 A.



Key locks

Remote key locking devices are ideal for lockout-tagout, locking and securing your electrical controls.

Available in many versions, including a version with a European half-cylinder enabling the same key to be used as for the team leader's room lock.

These devices adapt to all our 10 to 315 A switches.

Miniature fuses - 5x20 - 250 VAC - Glass body

Qty: : 10 units

Current (A)	5 x 20 Fast-acting	5 x 20 Time-delay	6 x 32 Fast-acting	6 x 32 Time-delay
0.063	-	MERD090531	-	MERV097745
0.08	MERZ090504	MERE090532	-	-
0.1	MERA090505	MERF090533	-	MERQ084424
0.125	MERB090506	MERG090534	-	-
0.16	MERC090507	MERH090535	-	MERQ084401
0.2	MERD090508	MERJ090536	-	MERL084420
0.25	MERE090509	MERK090537	-	MERR084402
0.315	MERF090510	MERL090538	MERP090564	MERM084421
0.4	MERG090511	MERM090539	MERQ090565	MERN084422
0.5	MERH090512	MERN090540	MERR090566	-
0.63	MERJ090513	MERP090541	MERS090567	MERK084419
0.8	MERK090514	MERQ090542	MERT090568	MERP084423
1	MERL090515	MERR090543	MERV090569	-
1.25	MERM090516	MERS090544	MERW090570	MERV084405
1.6	MERN090517	MERT090545	MERX090571	MERW084406
2	MERP090518	MERV090546	MERY090572	MERX084407
2.5	MERQ090519	MERW090547	MERZ090573	MERY084408
3.15	MERR090520	MERX090548	MERA090574	MERZ084409
4	MERS090521	MERY090549	MERB090575	-
5	MERT090522	MERZ090550	MERC090576	-
6.3	MERV090523	MERA090551	MERD090577	-
8	MERW090524	MERP206070	MERE090578	-
10	MERX090525	MERQ206071	MERF090579	-
12.5	MERW233446	MERZ233449	MERC233452	-
16	MERX233447	MERA233450	MERD233453	MERH084417
20	MERY233448	MERB233451	MERE233454	-

**Boxes of assorted 5x20 fuses - 18 ratings**

100 mA to 6.3 A. 20 units per rating.

Fuse	Body	Type of fuse	Range	Reference
5x20	Glass	Time-delay	5ST	MERH203764
5x20	Glass	Fast-acting	5SF	MERG203763

**10.3 x 38 cylindrical fuses**

Qty: : 10 units



Current (A)	Voltage (V)	gG 10.3 x 38		aM 10.3 x 38	
		Reference without indicator	Reference with indicator	Reference without indicator	Reference with indicator
0.5	500	MERC211027	-	MERW216150	-
1	500	MERB212061	-	MERF217171	MERX219233
2	500	MERD213098	MERS216653	MERH218714	MERG222209
4	500	MERX213598	MERE217170	MERW219232	MERK200753
6	500	MERK215128	MERT218195	MERF222208	MERK201811
8	500	MERD217169	MERV219231	MERZ201295	MERZ211553
10	500	MERS218194	MERE222207	MERY211552	MERH213102
12	500	MERW219761	MERH200751	MERA213601	MERD214110
16	500	MERG200750	MERH201809	MERF214618	MERP215132
20	500	MERD211028	MERX211551	MERX216151	MERV216655
25	400	MERE213099	MERW212585	MERG217172	MERL217682
32	400	MERA214107	MERZ213600	MERJ218715	-
Neutral	-	MERR211569			

Fuse holders for 10.3 x 38 fuses

Poles	Reference without indicator	Nbr. Mod. (17.5 mm)
1	MERP1062705	1
1+N (2 modules)	MERG1062698	2
2	MERH1062699	2
3	MERE1062696	3
3+N	MERY1062690	4
4	MERZ1062691	4
1+N (1 module)	MERY201317	1



14 x 51 cylindrical fuses

Qty: : 10 units

Rating (A)	gG 14 x 51		aM 14 x 51	
	Reference without indicator	Reference with striker	Reference without indicator	Reference with striker
0.25	-	-	MERB212590	-
0.5	-	-	MERL213105	-
1	MERK218716	-	MERE213605	MERW215644
2	MERY219234	MERJ211033	MERH214114	MERB216661
4	MERA219765	MERH212067	MERK214622	MERC218203
6	MERH222210	MERG214113	MERS215135	MERE219240
8	MERD222965	MERR215134	MERT215642	MERN222215
10	MERL200754	MERZ216153	MERZ216659	MERS200760
12	MERL201812	MERL217176	MERM217177	MERR201817
16	MERA211554	MERZ218200	MERQ217686	MERG211560
20	MERZ212588	MERB219237	MERP218720	MERE212593
25	MERC213603	MERL222213	MERE219769	MERH213608
32	MERW216656	MERP200757	MERM222214	MERN214625
40	MERX218198	MERP201815	MERQ200758	MERX215645
45	-	-	MERL211035	MERC216662
50	MERZ219235	MERD211557	MERE211558	MERD218204
Neutral	MERM212600			

Fuse holders for 14 x 51 fuses

Poles	Reference
1	MERA331016
1+N	MERT331010
2	MERR331031
3	MERS331032
3+N	MERD331042
4	MERF331021
N	MERT331056

**22 x 58 cylindrical fuses**

Qty: : 10 units

Rating (A)	gG 22 x 58		aM 22 x 58	
	Reference without indicator	Reference with striker	Reference without indicator	Reference with striker
1	-	-	MERM219776	MERE215652
2	MERF219241	-	MERT222220	MERJ216162
4	MERH219772	MERR214628	MERQ222976	MERA217695
6	MERP222216	MERA215648	MERY200765	MERY218728
8	MERL222972	MERF216665	MERN201308	MERQ219779
10	MERT200761	MERW217691	MERX201822	MERS222978
12	MERJ201304	MERW218726	MERT211042	MERR201311
16	MERS201818	MERL219775	MERM211565	MERW211044
20	MERP211038	MERP222975	MERS212076	MERW212079
25	MERN212072	MERM201307	MERJ212597	MERQ213615
32	MERF212594	MERS211041	MERV213113	MERX214633
40	MERJ213609	MERR212075	MERN213613	MERF215653
50	MERP214626	MERM213612	MERR214122	MERK216669
63	MERY215646	MERS214629	MERC215650	MERB217696
80	MERQ217180	MERF216159	MERH216667	MERZ218729
100	MERE218205	MERT217183	MERY217693	MERT222979
125	MERJ219773	MERH218208	MERJ218209	MERS201312
Neutral	MERR213616			

Fuse holders for 22 x 58 fuses

Poles	Reference
1	MERT331079
1+N	MERH331092
2	MERQ331122
3	MERE331135
3+N	MERA331108
4	MERQ331099
N	MERK331094



NH fuses

gG curve - 500 V

Size	Current (A)	Reference	Pkg
000	16	MERK222097	9
	20	MERA222847	
	25	MERE201185	
	32	MERZ211438	
	35	MERC211947	
	40	MERN212463	
	50	MERT212974	
	63	MERE213996	
	80	MERY216543	
	100	MERB219122	
00	125	MERR201863	3
	160	MERP211084	
0	100	MERD219814	3
	125	MERP222492	
	160	MERF223013	
	200	MERC229611	
	250	MERE229613	
1	125	MERQ217732	3
	160	MERA218247	
	200	MERP218766	
	250	MERE219815	
	315	MERQ228519	
2	200	MERR217733	3
	250	MERR222494	
	315	MERE201346	
	400	MERN211083	
3	315	MERL213151	1
	400	MERT215182	
	500	MERM217223	
	630	MERS217734	

NH fuses

aM curve - 500 V

Hole	Current (A)	Reference	Pkg
000	16	MERP232497	3
	20	MERQ232498	
	25	MERR232499	
	32	MERS232500	
	35	MERT232501	
	40	MERV232502	
	50	MERW232503	
	63	MERX232504	
	80	MERC227863	
	100	MERY232505	
00	125	MERZ232506	3
	160	MERJ227869	
0	100	MERA232507	3
	125	MERB232508	
	160	MERC232509	
	200	MERA227884	
	125	MERE232511	
1	160	MERF232512	3
	200	MERG232513	
	250	MERJ232515	
	315	MERK227962	
	315	MERL232517	
2	400	MERN232519	3
	500	MERC227978	
	315	MERP232520	
3	400	MERR232522	1
	500	MERV232525	
	630	MERM227987	

**Medium voltage fuses (MV) - Size 55 x 520**

UTE EDF standard

Current (A)	Reference without striker	Reference with striker	EDF Nomenclature
6.3	MERS1047965	MERT1047966	73.02.132
16	MERB1043534	MERG1043539	73.02.133
31.5	MERL1047361	MERM1047362	-
43	MERH1043540	MERL1043543	73.02.134
63	MERY1048384	MERZ1048385	73.02.135

**Other products****DIN fuses**

gG and ultra fast-acting curves

**Square body**

LV: sizes 000, 00, 0, 1, 2, 3, 4.

**Protistor**

World leader with the "PROTISTOR®" ultra fast-acting fuse F - UK - D - UL/CSA standard.



Are you on a building equipped with a lightning rod or in contact within a radius of 50 m around the building?

YES

NO

Type 1+2 surge arrester
limp 12.5 kA or 25 kA

Type 2 surge arrester/ I_{max} 40 kA

**1st protection step:
MAIN SWITCHBOARD**

STPT12 - 12 kA
TYPE 1+2 limp 12.5 kA

Reference	Designation	Nbr of phases	Neutral system
MER83120115	STPT12-12K275V-2PGM	1 PH+N	TT
MER83120121	STPT12-12K275V-2PM	1 PH+N	TNS
MER83120139	STPT12-12K275V-4PGM	3 PH+N	TT
MER83120145	STPT12-12K275V-4PM	3 PH+N	TNS

STPT12 - 25 kA
TYPE 1+2 limp 25kA

Reference	Designation	Nbr of phases	Neutral system
MER83120155	STPT12-25K275V-2PGM	1 PH+N	TT
MER83120157	STPT12-25K275V-2PM	1 PH+N	TNS
MER83120151	STPT12-25K275V-4PGM	3 PH+N	TT
MER83120161	STPT12-25K275V-4PM	3 PH+N	TNS

Selection according to the directives of the lightning analysis.
If there are no precise details, standard IEC 61643 requires the use of a surge arrester with a minimum value of 12.5 kA

2nd protection step: DISTRIBUTION PANEL

STPT2 - 40 kA
TYPE 2 I_{max} 40 kA



Reference	Designation	Nbr of phases	Neutral system
MER83020117	STPT2-40K275V-2PGM	1 PH+N	TT
MER83020123	STPT2-40K275V-2PM	1 PH+N	TNS
MER83020147	STPT2-40K275V-4PGM	3 PH+N	TT
MER83020153	STPT2-40K275V-4PM	3 PH+N	TNS

3rd protection step: CLOSE TO SENSITIVE EQUIPMENT

Type 2+3 surge arresters/ I_{max} 20 kA

STPT23 - 20 kA
TYPE 2 I_{max} 20 kA



Reference	Designation	Nbr of phases	Neutral system
MER83230113	STPT23-20K320V-2PGM	1 PH+N	TT
MER83230117	STPT23-20K320V-2PM	1 PH+N	TNS
MER83230129	STPT23-20K320V-4PGM	3 PH+N	TT
MER83230133	STPT23-20K320V-4PM	3 PH+N	TNS

IP69K pushbuttons

Colour	Metal	Plastic
Black	3SU10500AB100AA0	3SU10000AB100AA0
Red	3SU10500AB200AA0	3SU10000AB200AA0
Yellow	3SU10500AB300AA0	3SU10000AB300AA0
Green	3SU10500AB400AA0	3SU10000AB400AA0
Blue	3SU10500AB500AA0	3SU10000AB500AA0
White	3SU10500AB600AA0	3SU10000AB600AA0
Colourless	3SU10500AB700AA0	3SU10000AB700AA0



3SU10500AB400AA0

Emergency stop mushroom button, IP69K

ES	Metal	Plastic
ES	3SU10501HB200AA0	3SU10001HB200AA0
Illuminated ES	3SU10511HB200AA0	3SU10011HB200AA0



3SU10501HB200AA0

Rotary switches with 2 stable positions, illuminable, IP69K

Colour	Metal	Plastic
White black	3SU10522BF600AA0	3SU10022BF600AA0



3SU10022BF600AA0

Contact us for other colours

Rotary switches with 3 stable positions, illuminable, IP69K

Colour	Metal	Plastic
White black	3SU10522BL600AA0	3SU10022BL600AA0



3SU10322BL600AA0

Contact us for other colours

Contact blocks and holders

Nbr. contacts	Spring contact reference	Reference spring contact
1 NO	3SU14001AA103BA0	3SU14001AA101BA0
1 NC	3SU14001AA103CA0	3SU14001AA101CA0
3-Module holder	3SU15100AA100AA0	Metal holder
3-Module holder	3SU15500AA100AA0	Universal holder



3SU14001AA103BA0



3SU15000AA100AA0

Indicator light, IP69K

Colour	Metal	Plastic
Red	3SU10516AA200AA0	3SU10016AA200AA0
Yellow	3SU10516AA300AA0	3SU10016AA300AA0
Green	3SU10516AA400AA0	3SU10016AA400AA0
Blue	3SU10516AA500AA0	3SU10016AA500AA0
White	3SU10516AA600AA0	3SU10016AA600AA0
Colourless	3SU10516AA700AA0	3SU10016AA700AA0



3SU10516AA300AA0

LED modules, 24 VUC

Colour	Spring contact reference	Spring contact reference
Red	3SU14011BB203AA0	3SU14011BB201AA0
Yellow	3SU14011BB303AA0	3SU14011BB301AA0
Green	3SU14011BB403AA0	3SU14011BB401AA0
Blue	3SU14011BB503AA0	3SU14011BB501AA0
White	3SU14011BB603AA0	3SU14011BB601AA0



3SU14011BB201AA0

Contact us for other voltages

Potentiometer

Function	Metal	Plastic
4.7 k potentiometer	3SU12502PR101AA0	3SU12002PR101AA0
10 k potentiometer	3SU12502PS101AA0	3SU12002PS101AA0
Labelling accessories		
With 0-10 V graduations		3SU19000BG160SA0
With start symbol		3SU19000BG160RU0
No marking		3SU19000BG160AA0



3SU12002PR101AA0



3SU19000BG160SA0



3SU19000BG160RU0

3RV2 motor circuit breakers from 0.16 to 40 A

Thermal-magnetic protection

(breaking capacity 100/50 kA-20 kA at 400 V).

Rated power (at 400 V) kW	Idc (kA)	Adjustment range of thermal overload releases (A)	Reference
Size S00			
	100 kA	0.11 - 0.16	3RV20110AA□0
		0.14 - 0.2	3RV20110BA□0
0.06		0.18 - 0.25	3RV20110CA□0
0.09		0.22 - 0.32	3RV20110DA□0
		0.28 - 0.4	3RV20110EA□0
0.12		0.35 - 0.5	3RV20110FA□0
0.18		0.45 - 0.63	3RV20110GA□0
		0.55 - 0.8	3RV20110HA□0
0.25		0.7 - 1	3RV20110JA□0
0.37		0.9 - 1.25	3RV20110KA□0
0.55		1.1 - 1.6	3RV20111AA□0
0.75		1.4 - 2	3RV20111BA□0
		1.8 - 2.5	3RV20111CA□0
1.1		2.2 - 3.2	3RV20111DA□0
1.5		2.8 - 4	3RV20111EA□0
		3.5 - 5	3RV20111FA□0
2.2		4.5 - 6.3	3RV20111GA□0
3		5.5 - 8	3RV20111HA□0
4		7 - 10	3RV20111JA□0
5.5		9 - 12.5	3RV20111KA□0
7.5	55 kA	11 - 16	3RV20114AA□0
Size S0			
11	55 kA	14 - 20	3RV20214BA□0
11		17 - 22	3RV20214CA□0
11		20 - 25	3RV20214DA□0
15	50 kA	23 - 28	3RV20214NA□0
15		27 - 32	3RV20214EA□0
18.5	20 kA	30 - 36	3RV20214PA10
18.5		34 - 40	3RV20214FA10

□ TO be replaced by:
1: screw terminals
2: spring terminals

Accessories common to all sizes

Type	Version	Reference
Transverse auxiliary contact	1 NO + 1 NC	3RV2901□E
Fault signalling switch	1 NO + 1 NC	3RV2921□M
Undervoltage release	230 VAC	3RV2902□AP0
	400 VAC	3RV2902□AV0

□ TO be replaced by:
1: screw terminals
2: spring terminals



3RV29012E



3RV20111EA10



3RV2021-4DA20

3RW3 electronic starter up to 100 A

Soft starting and stopping for three-phase asynchronous motors.

Adjustment of start-up voltage and start-up time.

Control voltage 110/230 VAC.

Size	Motor rated power	Rated current A	Reference
S00	3	6.5	3RW3014□BB14
	4	9	3RW3016□BB14
	5.5	12.5	3RW3017□BB14
	7.5	17.6	3RW3018□BB14
S0	11	25	3RW3026□BB14
	15	32	3RW3027□BB14
	18.5	38	3RW3028□BB14
S2	22	45	3RW3036□BB14
	30	63	3RW3037□BB14
	37	72	3RW3038□BB14
S3	45	80	3RW3046□BB14
	55	106	3RW3047□BB14

*Available in 24 VAC/DC control voltage

□ TO be replaced by:
1: screw terminals
2: spring terminals



3RW3018-1BB14

3RT20 motor contactors

Rated power (at 400 V) kW	Operating current (AC-3) A	Auxiliary contact		Control voltage	Reference
		NO	NC		
Control circuit in alternating current					
Size S00					
3	7	1	-	230 V	3RT2015□AP01
		-	1	230 V	3RT2015□AP02
4	9	1	-	230 V	3RT2016□AP01
		-	1	230 V	3RT2016□AP02
5.5	12	1	-	230 V	3RT2017□AP01
		-	1	230 V	3RT2017□AP02
7.5	16	1	-	230 V	3RT2018□AP01
7.5		-	1	230 V	3RT2018□AP02
Size S0					
7.5	17	1	1	230 V	3RT2025□AP00
11	25	1	1	230 V	3RT2026□AP00
15	32	1	1	230 V	3RT2027□AP00
18.5	40	1	1	230 V	3RT2028□AP00
Control circuit in direct current					
Size S00					
3	7	1	-	24 V	3RT2015□BB41
		-	1	24 V	3RT2015□BB42
4	9	1	-	24 V	3RT2016□BB41
		-	1	24 V	3RT2016□BB42
5.5		1	-	24 V	3RT2017□BB41
5.5	12	-	1	24 V	3RT2017□BB42
Size S0					
7.5	17	1	1	24 V	3RT2025□BB40
11	25	1	1	24 V	3RT2026□BB40
15	32	1	1	24 V	3RT2027□BB40
18.5	40	1	1	24 V	3RT2028□BB40

□ to be replaced by:
1: screw terminals
2: spring terminals

S0 snap-on auxiliary contact blocks

Contact		Reference
NO	NC	
2	1	3RH2911□HA21
1	2	3RH2911□HA12
1	1	3RH2911□HA11

$I_e = 6 \text{ A at } 230 \text{ V}$

□ TO be replaced by:
1: screw terminals
2: spring terminals



3RT20172AP01



3RT20251AP00



3RT20252BB40

3RH11 auxiliary contactors • Size S00

For screw-fastening and snap-on fastening on 35 mm symmetrical profile.

Rated operating current at				Auxiliary contact		Control voltage	Reference
230 V A	400 V A	500 V A	690 V A	NO	NC		
AC control circuit							
6	3	2	1	4	-	230 V	3RH2140□AP00
				3	1	230 V	3RH2131□AP00
				2	2	230 V	3RH2122□AP00
DC control circuit							
6	3	2	1	4	-	24 V	3RH2140□BB40
				3	1	24 V	3RH2131□BB40
				3	2	24 V	3RH2122□BB40

□ TO be replaced by:
1: screw terminals
2: spring terminals

S00 snap-on auxiliary contact blocks

Contact		Reference
NO	NC	
4	0	3RH2911□FA40
3	1	3RH2911□HA31
2	2	3RH2911□HA22

$I_e = 6 \text{ A at } 230 \text{ V}$

□ TO be replaced by:
1: screw terminals
2: spring terminals



3RH29111HA22

Modular circuit breakers

C curve.

5SL3 series $I_{dc} = 4.5 \text{ kA}$ according to EN608985SY6 series $I_{dc} = 6 \text{ kA}$ according to EN608985SY4 series $I_{dc} = 10 \text{ kA}$ according to EN60898

Nbr poles	I (A)	Reference
1P+N (1 module)	6	5SL30067KL
	10	5SL30107KL
	16	5SL30167KL
	20	5SL30207KL

1P	1	5SY□1017
	2	5SY□1027
	3	5SY□1037
	4	5SY□1047
	6	5SY□1067
	8	5SY□1087
	10	5SY□1107
	16	5SY□1167
	20	5SY□1207
2P	1	5SY□2017
	2	5SY□2027
	3	5SY□2037
	4	5SY□2047
	6	5SY□2067
	10	5SY□2107
	16	5SY□2167
	20	5SY□2207
3P	1	5SY□3017
	2	5SY□3027
	3	5SY□3037
	4	5SY□3047
	6	5SY□3067
	10	5SY□3107
	16	5SY□3167
	20	5SY□3207
	25	5SY□3257
4P	1	5SY□4017
	2	5SY□4027
	3	5SY□4037
	4	5SY□4047
	6	5SY□4067
	10	5SY□4107
	16	5SY□4167
	20	5SY□4207
	25	5SY□4257

□ to be replaced by:
4 for $I_{dc} = 10 \text{ kA}$
6 for $I_{dc} = 6 \text{ kA}$

**One-piece combined RCD/MCBs**Neutral to the left - $I_{dc} = 4.5 \text{ kA}$.

Nbr poles	Sensitivity	I (A)	Reference
1P+N	30 mA	6	5SU13531KL06
		10	5SU13531KL10
		16	5SU13531KL16
		20	5SU13531KL20
1P+N	300 mA	6	5SU16531KL06
		10	5SU16531KL10
		16	5SU16531KL16
		20	5SU16531KL20

AC type residual current devices to be combined with 5SY4 / 5SY6 circuit breakers

Nbr poles	Sensitivity	I (A)	Reference
2 poles	30mA	0.3 to 40 A	5SM23220
	300mA	0.3 to 40 A	5SM26220
4 poles	30mA	0.3 to 40 A	5SM23420
	300mA	0.3 to 40 A	5SM26420

A type residual current devices to be combined with 5SY4 / 5SY6 circuit breakers

Nbr poles	Sensitivity	I (A)	Reference
2 poles	30mA	0.3 to 40 A	5SM23226
	300mA	0.3 to 40 A	5SM26226
4 poles	30mA	0.3 to 40 A	5SM23426
	300mA	0.3 to 40 A	5SM26426

5SV RCDs

Fault current	Rated current	Max. upstream protection	Reference
Type A 1 pole + neutral on left			
30	16	63	5SV33116KL
	25	63	5SV33126KL
	40	63	5SV33146KL
	63	80	5SV33166KL
300	25	63	5SV36126KL
	40	63	5SV36146KL
	63	80	5SV36166KL
Type A 3 poles + neutral on left			
30	25	80	5SV33426KL
	40	80	5SV33446KL
	63	80	5SV33466KL
300	25	80	5SV36426KL
	40	80	5SV36446KL
	63	80	5SV36466KL
Type AC 1 pole + neutral on left			
30	16	63	5SV43110KL
	25	63	5SV43120KL
	40	63	5SV43140KL
	63	80	5SV43160KL
300	25	63	5SV46120KL
	40	63	5SV46140KL
	63	80	5SV46160KL
Type AC 3 poles + neutral on left			
30	25	80	5SV43420KL
	40	80	5SV43440KL
	63	80	5SV43460KL
300	25	80	5SV46420KL
	40	80	5SV46440KL
	63	80	5SV46460KL



5SV3



5SV4

3VA1 moulded-case circuit breakers and accessories

breaking capacity 36 kA at 415 V, thermal and magnetic adjustment

Rating	Adjustment range	Reference 3 poles	Ref. 4 pole 100% Neutral-conductor protection
63	44....63	3VA11634EF360AA0	3VA11634GF460AA0
80	56....80	3VA11804EF360AA0	3VA11804GF460AA0
100	70....100	3VA11104EF360AA0	3VA11104GF460AA0
125	88....125	3VA11124EF360AA0	3VA11124GF460AA0
160	112....160	3VA11164EF36 0AA0	3VA11164GF460AA0
200	140....200	3VA12204EF320AA0	3VA12204GF420AA0
250	175....250	3VA12254EF320AA0	3VA12254GF420AA0

Rating 63 to 160 A: screw terminal (box clamp) connection

Rating 200 to 250 A: flat screw connection



3VA1

RCD side-mounted accessory for 3VA1

Variants	Reference
Three-pole 160 A	3VA91130RS20
Three-pole 250 A	3VA92130RS20
Four-pole 160 A	3VA91140RS20
Four-pole 250 A	3VA92140RS20



Accessories

Reference	Designation
3VA99880AA12	1 changeover auxiliary contact
3VA99880AB32	1 fault CO contact
3VA99880BL30	24 VUC shunt release
3VA99880BL33	230 VUC shunt release
3VA99080BB11	24 VDC undervoltage release
3VA99080BB25	230 VAC undervoltage release



3VA99880AA12

Door-mounted controls

Reference	Designation
3VA91570FK21	Rotary control on black door 160 A
3VA92570FK21	Rotary control on black door 250 A
3VA91570FK25	Rotary control on red / yellow door 160 A
3VA92570FK25	Rotary control on red / yellow door 250 A



3VA91570FK25

Reference	Designation
3VA91870SH10	Adapter for three- and four-pole DIN rails

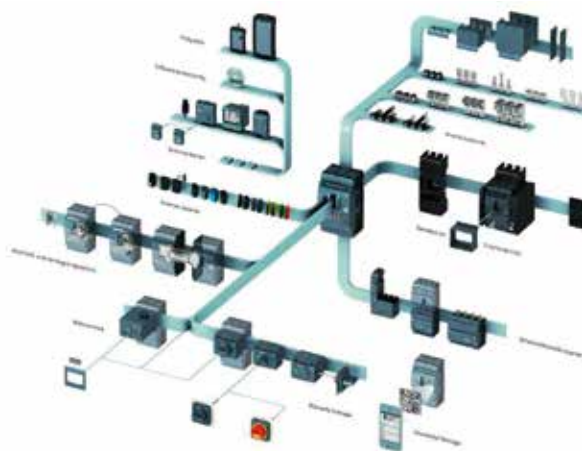


3VA91870SH10

Reference	Designation
3VA91110WD30	Short 3-pole terminal cover 160 A
3VA92110WD30	Short 3-pole terminal cover 250 A
3VA91110WD40	Short 4-pole terminal cover 160 A
3VA92110WD40	Short 4-pole terminal cover 250 A



3VA91110WD40



230 V, 50/60 Hz residual current protection and monitoring relays

Reference	Designation
5SV80016KK	Digital relay, type A



5SV80016KK

Reference	Designation
5SV87000KK	20 mm toroid sensor
5SV87010KK	30 mm toroid sensor
5SV87020KK	35 mm toroid sensor
5SV87030KK	70 mm toroid sensor
5SV87040KK	105 mm toroid sensor
5SV87050KK	140 mm toroid sensor
5SV87060KK	210 mm toroid sensor



Power supplies

Type	Input U	Application	Output UDC	Output I	Reference
Logo Power	Single-phase 100/240 VAC	36 mm	24	1.3	6EP33316SB000AY0
		54 mm	24	2.5	6EP33326SB000AY0
		72 mm	24	4	6EP33336SB000AY0
SITOP PSU6200	Single-phase 120/230 VAC	PSU6200	24	2.5	6EP33327SB000AX0
		PSU6200	24	5	6EP33337SB000AX0
		PSU6200	24	10	6EP33347SB003AX0
	3-Phase 400/500 VAC	PSU6200	24	10	6EP34347SB003AX0
		PSU6200	24	20	6EP34367SB003AX0
		PSU6200	24	40	6EP34377SB003AX0
Sitop Smart	Single-phase 120/230 VAC	Smart	24	2.5	6EP13322BA10
		Smart	24	5	6EP13332BA01
		Smart	24	10	6EP13342BA01
Sitop Modular	1 AC 120/230, 2 AC 500	Modular	24	5	6EP33338SB000AY0
		Modular	24	10	6EP33348SB000AY0
	Single-phase 120/230 VAC	Modular	24	20	6EP13363BA10
		Modular	24	40	6EP33378SB000AY0
	3-Phase 400/500 VAC	Modular	24	20	6EP34368SB000AY0
		Modular	24	40	6EP34378SB000AY0
		Support module	accessory		6EP19613BA01
		Signalling module	accessory		6EP19613BA10
		Redundancy	accessory		6EP19613BA21



LOGO! Power



SITOP PSU6200



SITOP Smart

SITOP LITE power supplies

Reference	Type	Voltage	Output UDC	Output I	Dimensions
6EP13321LB00	PSU100L	120/230 VAC	24	2.5	32.5 x 125 x 125
6EP13331LB00	PSU100L	120/230 VAC	24	5	50 x 125 x 125
6EP13341LB00	PSU100L	120/230 VAC	24	10	70 x 125 x 125



SITOP LITE

Selectivity modules

Reference	Adjustment	Nbr. outputs
6EP19612BA11	0.5 to 3 A	4
6EP19612BA21	3 to 10 A	4
6EP44387FB003DX0	SITOP SEL1200, 24 V/8 x 10 A, switching characteristic	8
6EP44387EB003DX0	SITOP SEL1400, 24 V/8 x 10 A, limiting characteristic	8
6EP44377FB003CX0	SITOP SEL1200, 24 V/4 x 10 A, switching characteristic	4
6EP44377EB003CX0	SITOP SEL1400, 24 V/4 x 10 A, limiting characteristic	4
6EP44377FB003DX0	SITOP SEL1200, 24 V/4 x 10 A, switching characteristic	4
6EP44377EB003DX0	SITOP SEL1400, 24 V/4 x 10 A, limiting characteristic	4



6EP19612BA11

Redundancy modules



Reference	Designation	Adjustment
6EP43467RB000AX0	SITOP RED1200	2 x 10 A
6EP43477RB000AX0	SITOP RED1200	2 x 20 A



6EP4346-7RB00-0AX0

Source switching

Automatic source transfer switches

ATSE from 40 to 3200 A with automation for
 Transformer/Transformer and Transformer/Genset management
 + trip function, programmables parameters and communication*



Reference	Designation	Rating (A)	Nbr poles	Busbars	Voltage sensing & power supply tap kit	Terminal shroud	RS485 MODBUS communication*
SOC93844006	ATyS p M 4 poles 63 A	63	4	SOC13094006	SOC13994006	SOC22944016	integrated
SOC93844008	ATyS p M 4 poles 80 A	80	4	SOC13094006	SOC13994006	SOC22944016	integrated
SOC93844010	ATyS p M 4 poles 100 A	100	4	SOC13094006	SOC13994006	SOC22944016	integrated
SOC93844012	ATyS p M 4 poles 125 A	125	4	SOC13094006	SOC13994006	SOC22944016	integrated
SOC93844016	ATyS p M 4 poles 160 A	160	4	SOC13094016	SOC13994006	SOC22944016	integrated
SOC95734020	ATyS p 4 poles 200 A	200	4	SOC41094019	SOC15594013	SOC26944014	SOC48250092
SOC95734025	ATyS p 4 poles 250 A	250	4	SOC41094025	SOC15594026	SOC26944021	SOC48250092
SOC95734040	ATyS p 4 poles 400 A	400	4	SOC41094039	SOC15594041	SOC26944021	SOC48250092
SOC95734063	ATyS p 4 poles 630 A	630	4	SOC41094063	SOC15594064	SOC26944051	SOC48250092
SOC95734080	ATyS p 4 poles 800 A	800	4	SOC41094080	SOC15594081	-	SOC48250092
SOC95734120	ATyS p 4 poles 1250 A	1250	4	SOC41094120	SOC15594121	-	SOC48250092
SOC95734160	ATyS p 4 poles 1600 A	1600	4	SOC41094160	SOC15594161	-	SOC48250092

Manual source transfer switches

MTSE from 25 to 3200 A, three- or four-pole, manually operated
 by direct front or external handle.
 Positive break indication.

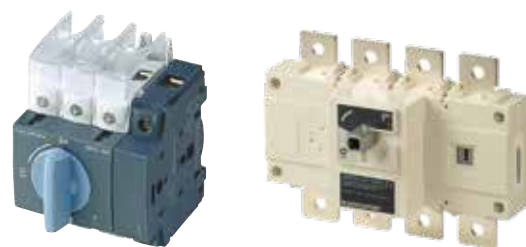


Reference	Designation	Rating (A)	Nbr poles	Busbars	Direct handle	External handle IP65	Shaft for external handle
SOC44304006	SIRCO VM1 4 poles 63 A	63	4	SOC44994006	SOC44395012	SOC14132113	SOC14020832 (320 mm)
SOC44304008	SIRCO VM1 4 poles 80 A	80	4	SOC44994006	SOC44395012	SOC14132113	SOC14020832 (320 mm)
SOC44304010	SIRCO VM1 4 poles 100 A	100	4	SOC44994006	SOC44395012	SOC14132113	SOC14020832 (320 mm)
SOC44304012	SIRCO VM1 4 poles 125 A	125	4	SOC44994006	SOC44395012	SOC14132113	SOC14020832 (320 mm)
SOC41AC4016	Sircover 4 poles 160 A	160	4	SOC13094016	SOC11221111	SOC14232113	SOC14001032 (320 mm)
SOC41AC4020	Sircover 4 poles 200 A	200	4	SOC41094019	SOC11221111	SOC14232113	SOC14001032 (320 mm)
SOC41AC4025	Sircover 4 poles 250 A	250	4	SOC41094025	SOC11221111	SOC14232113	SOC14001032 (320 mm)
SOC41AC4040	Sircover 4 poles 400 A	400	4	SOC41094039	SOC11221111	SOC14232113	SOC14001032 (320 mm)
SOC41AC4063	Sircover 4 poles 630 A	630	4	SOC41094063	SOC11221111	SOC14232113	SOC14001032 (320 mm)
SOC41AC4080	Sircover 4 poles 800 A	800	4	SOC41094080	SOC27997052	SOC14433113	SOC27993019 (450 mm)
SOC41AC4120	Sircover 4 poles 1250 A	1250	4	SOC41094120	SOC27997052	SOC14433113	SOC27993019 (450 mm)
SOC41AC4160	Sircover 4 poles 1600 A	1600	4	SOC41094160	SOC27997052	SOC14433113	SOC27993019 (450 mm)

Switch-disconnectors

Modular switch-disconnectors:

- 16 to 160 A three-pole with optional additional poles.
- 125 to 3200 A, three- or four-pole, manually operated by direct front or external handle.



Reference	Designation	Rating (A)	Nbr poles	4th pole	Direct handle	External handle IP65	Shaft for external handle
SOC22003000	Sirco M 3 poles 16 A	16	3	SOC22001000	SOC22995012	SOC14731111	SOC14070532 (320 mm)
SOC22003002	Sirco M 3 poles 25 A	25	3	SOC22001002	SOC22995012	SOC14731111	SOC14070532 (320 mm)
SOC22003003	Sirco M 3 poles 32 A	32	3	SOC22001003	SOC22995012	SOC14731111	SOC14070532 (320 mm)
SOC22003004	Sirco M 3 poles 40 A	40	3	SOC22001004	SOC22995012	SOC14731111	SOC14070532 (320 mm)
SOC22003006	Sirco M 3 poles 63 A	63	3	SOC22001006	SOC22995012	SOC14731111	SOC14070532 (320 mm)
SOC22003010	Sirco M 3 poles 100 A	100	3	SOC22001010	SOC22995032	SOC14831111	SOC14070532 (320 mm)
SOC22003011	Sirco M 3 poles 125 A	125	3	SOC22001011	SOC22995032	SOC14831111	SOC14070532 (320 mm)
SOC26004017	Sirco 4 poles 160 A	160	4	-	SOC26995043	SOC14232111	SOC14001050 (500 mm)
SOC26004026	Sirco 4 poles 250 A	250	4	-	SOC26995052	SOC14232111	SOC14001050 (500 mm)
SOC26004041	Sirco 4 poles 400 A	400	4	-	SOC26995052	SOC14232111	SOC14001050 (500 mm)
SOC26004064	Sirco 4 poles 630 A	630	4	-	SOC26995052	SOC14232111	SOC14001050 (500 mm)
SOC26004081	Sirco 4 poles 800 A	800	4	-	SOC27997012	SOC14443111	SOC14011540 (400 mm)
SOC26004121	Sirco 4 poles 1250 A	1250	4	-	SOC27997012	SOC14443111	SOC14011540 (400 mm)
SOC26004161	Sirco 4 poles 1600 A	1600	4	-	SOC27997012	SOC14443111	SOC14011540 (400 mm)

DIRIS Digiware DC system



DIRIS Digiware AC system



Digiware AC & DC

Control and power supply interface

Reference	Designation	RS485 Modbus	Bus digiware	Ethernet	Embedded web server
SOC48290204	D-50 Centralisation and screen	Input/Output	x	Modbus RTU; Modbus TCP; BACnet IP; SNMP	
SOC48290203	D-70 Centralisation and screen	Input/Output	x	Modbus RTU; Modbus TCP; BACnet IP; SNMP	x
SOC48290101	C-31 Centralisation without screen	Output	x		
SOC48290103	C-32 Repeater	-	x		



SOC48290202

Digiware AC

Voltage acquisition modules

SOC48290404

Reference	Designation	Multimeter	Quality measurement
SOC48290105	U-10. Metering application	U12, U23, U31, V1, V2, V3, f	
SOC48290106	U-20. Monitoring application	U12, U23, U31, V1, V2, V3, f	THD
SOC48290102	U-30. Analysis application	As for U-20 as well as: system U and V and Ph/N and Ph/Ph imbalances	THD, crest factor, individual harmonics, incidents according to EN 50160



Current acquisition modules

Reference	Designation	Current	Multimeter	Quality measurement
SOC48290110	I-30 Metering application	3 x TE/TR/TF	+kWh, kvarh, kVAh, I1, I2, I3, In, ΣP, ΣQ, ΣS, ΣFP	
SOC48290112	I-60 Metering application	6 x TE/TR/TF		
SOC48290111	I-31 Metering application	3 x TE/TR/TF	As for I-30 as well as: Load curve, Multi-rate	
SOC48290113	I-61 Metering application	6 x TE/TR/TF		
SOC48290128	I-33 Monitoring application	3 x TE/TR/TF	As for I-30 as well as: P, Q, S, FP per phase	THD
SOC48290129	I-43 Monitoring application	4 x TE/TR/TF		
SOC48290130	I-35 Analysis application	3 x TE/TR/TF	Predictive power, current imbalance, Phi, cos Phi, tan Phi	Individual harmonics (up to 63), crest factor, overcurrents
SOC48290131	I-45 Analysis application	4 x TE/TR/TF		



SOC48290130

TE/TR/TF current sensors

	5 - 20 A	25 - 63 A	40 - 160 A	63 - 250 A	160 - 630 A	400 - 1000 A	600 - 2000 A	1600 - 6000 A
TE solid-core	SOC48290500	SOC48290501	SOC48290502	SOC48290503	SOC48290504	SOC48290505	SOC48290506	
TR split-core		SOC48290555	SOC48290556	SOC48290557	SOC48290558 ⁽¹⁾			
TF flexible					SOC48290574 ⁽²⁾	SOC48290575		SOC48290577

(1) 160 - 600 A, (2) 150 - 600 A

Digiware DC

Voltage acquisition modules. Vdc, Vripple, Vrms, Average value log

Reference	Designation	Rated voltage range	Voltage adapter
SOC48290150	U-31dc.	19.2...60 VDC	
SOC48290151	U-32dc.	48...180 VDC	optional up to 1650 VDC

SOC48250151



Current acquisition modules

Reference	Designation	Current	Multimeter	Quality
SOC48290156	I-30dc. Metering application	3 x DC sensor	+kW, Idc, Pdc	
SOC48290157	I-35dc. Analysis application	3 x DC sensor	Load curves, P predictive (I-30dc +)	I ripple, Irms

SOC48250405



DC current sensors

	50 A	100 A	200 A	300 A	400 A	500 A	1000 A	1500 A	2000 A
Solid-core	SOC48290700	SOC48290701	SOC48290702	SOC48290703	SOC48290704	SOC48290705	SOC48290708	SOC48290709	SOC48290710
Split-core	SOC48290750	SOC48290751	SOC48290752	SOC48290753	SOC48290754	SOC48290755	SOC48290757	SOC48290758	SOC48290759



		A-10	A-14	A-20	A-30	A-41	A-40	B-30
Master energy consumption	4-quadrant energy metering: + kWh; + kVarh; kVAh	x	x	x	x	x	x	x
	Log consumption: P, Q, S, U, I, F (max. 130 days)				optional	optional	X	X
	Re-invoice energy (MID)		x					
	Multi-rate management	2	4				8	8
Monitor the installation	Instantaneous, average, min and max values	x	x	x	x	x	x	x
	Network imbalance measurement						x	x
	Neutral current		calculated			measured	calculated	measured
Check the energy quality	Know the pollution level: THD, Individual harmonics (63rd harmonic)				x	x	x	x
	Detection of dips and interruptions						x	x
	Detection of overvoltages: transients						x	x
Manage equipment	Operating hours	x	x	x	x	x	x	x
	Number of operations (info and alarm)			optional	optional	optional	x	
	Analysis of predictive power and load shedding				x	x	x	x



TE/TR/iTR/TF current sensors: see previous page.

Multifunction meter - PMD

Reference	Designation	Installation	Umax	Current	Inputs(s)/Outputs(s)	Communication	Display
SOC48250500	DIRIS A-40 RS485-Modbus	Façade 96 x 96	520 V	3 x TE/TR/TF Sensor	2 / 3	RS485 Modbus	integrated
SOC48250501	DIRIS A-40 Ethernet	Façade 96 x 96	520 V	3 x TE/TR/TF Sensor	2 / 3	Ethernet	integrated
SOC48250502	DIRIS A-40 Profibus	Façade 96 x 96	520 V	3 x TE/TR/TF Sensor	2 / 3	Profibus DPV1	integrated
SOC48290000	DIRIS B-30 RS	DIN rail	500 V	3 x TE/TR/TF Sensor	option	RS 485 Modbus	option SOC48290200



Energy monitoring - PMD

Reference	Designation	Installation	Umax	Current	2 Inputs / 2 Outputs	COMM RS485 MODBUS	COMM Ethernet
SOC48250403	DIRIS A-30	Façade 96 x 96	up to 1039 V	3 x 1/5 A CT	option SOC48250090	option SOC48250092	option SOC48250203
SOC48250405	DIRIS A-30 12-48 VDC power supply	Façade 96 x 96					
SOC48250404	DIRIS A-41	Façade 96 x 96					
SOC48250406	DIRIS A-41 12-48 VDC power supply	Façade 96 x 96					



Multimeter - PMD

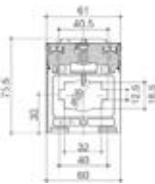
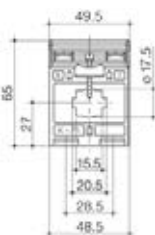
Reference	Designation	Installation	Umax	Current	Inputs(s)/Outputs(s)	Communication
SOC48250402	DIRIS A-20	Façade 96 x 96	500 V	5 A CT	option SOC48250083 (3I/1O)	option SOC48250082 RS485 Modbus
SOC48250020	DIRIS A-14 MID DIN rail	DIN rail			--	RS485 Modbus
SOC48250021	DIRIS A-14 MID 96 x 96	Façade 96 x 96			--	RS485 Modbus
SOC48250400	DIRIS A-10	Façade 96 x 96			1 logic/ 1 digital	none
SOC48250401	DIRIS A-10 RS485 Modbus	Façade 96 x 96			1 logic/ 1 digital	RS485 Modbus

Current transformers

Here in 0-5A output version; to be used with the DIRIS A-10, A-14, A-20, A-30, A-41 multimeters above.

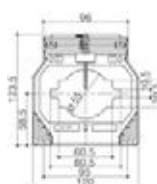
TCB 17-20 (Ø17.5)			
Reference	Ratio	Class	Power
SOC192T2106	60/5	1	1 VA
SOC192T2107	75/5	1	1 VA
SOC192T2108	80/5	1	1.25 VA
SOC192T2110	100/5	1	1.5 VA

TCB 44-50 (Ø44)			
Reference	Ratio	Class	Power
SOC192T5050	500/5	0.5	10 VA
SOC192T5060	600/5	0.5	10 VA
SOC192T5075	750/5	0.5	10 VA
SOC192T5080	800/5	0.5	10 VA
SOC192T5090	1000/5	0.5	10 VA
SOC192T5092	1200/5	0.5	10 VA
SOC192T5095	1250/5	0.5	10 VA



TCB 26-40 (Ø26)			
Reference	Ratio	Class	Power
SOC192T3215	150/5	1	2.5 VA
SOC192T3216	160/5	1	2.5 VA
SOC192T3220	200/5	1	2.5 VA
SOC192T3225	250/5	1	2.5 VA
SOC192T3230	300/5	1	5 VA
SOC192T3240	400/5	1	5 VA

TCB 55-80 (Ø55)			
Reference	Ratio	Class	Power
SOC192T8190	1000/5	0.5	15 VA
SOC192T8192	1200/5	0.5	15 VA
SOC192T8193	1250/5	0.5	15 VA
SOC192T8194	1600/5	0.5	15 VA
SOC192T8196	2000/5	0.5	15 VA



COMO switch-disconnectors

In IP65 sealed polycarbonate enclosure from 20 to 125 A

3, 4, 6 and 8 poles

Yellow/red or grey/blue handle

Triple padlocking in OFF position

RAL 7035

Cable entry knockouts top and bottom

Accessories:

Unswitched neutral pole (1 max.)

Auxiliary contact - NO+NC or 2 NO



Rating	Nbr poles	Reference with red/yellow handle	Additional pole (unswitched)	Auxiliary contacts	Dimensions H x W x D (mm)	Top and bottom cable entry (mm)		
20 A	3	SOC21153401	-	-	92 x 64 x 83	2 x Ø25		
	4	SOC21154401						
25 A	3	SOC21153402	SOC21155005	1 AC - NO+NC SOC21134001 1 AC - 2 NO+NC SOC21134002	163 x 100 x 115	2 x Ø25		
	4	SOC21154402						
32 A	3	SOC21153403						
	4	SOC21154403						
40 A	3	SOC21153404	SOC21155007		200 x 146 x 150	2 x Ø32 2 x Ø40		
	4	SOC21154404						
63 A	3	SOC21153406	SOC21155009				304 x 214 x 182	2 x Ø50 2 x 63
	4	SOC21154406						
80 A	3	SOC21153408	SOC21155011					
	4	SOC21154408						
100 A	3	SOC21153409	SOC21155011					
	4	SOC21154409						
125 A	3	SOC21153412			SOC21155011			
	4	SOC21154412						



Door-mounted COMO compact switch-disconnectors from 32 to 63 A

Direct access to terminals for appropriate tightening

"Quick Fix" mounting saves time (Ø22.5 mm holes)

Rating	Reference	4th pole	External IP65 red/yellow handle	Aux. contact NO + NC	Neutral pole	PE pole	Terminal shroud
32 A	SOC21113303	SOC21111203	SOC211131333	SOC211134200	SOC21111256	SOC21111276	1 P (upstream and downstream) SOC211135001
63 A	SOC21113305	SOC21111205					3 P (upstream and downstream) SOC211135003

Other products: Contact us



Automatic changeover switch



Enclosed load break switches from 20 to 1600 A

Compact DC / AC fans



Designation	Dimensions (mm)	Air-flow (m³/h)	Voltage (VAC)	Noise level dB(A)	Sleeve bearings	Ball bearings	Power	Temp. (°C)	Service life L10 40° / Max T	Grille reference
414	40 x 40 x 20	10	24 VDC	18	□	■	1.0	-20..+70	50,000 / 20,000	EBM102FX0108
514 F	50 x 50 x 15	20	24 VDC	30	□	■	0.9	-20..+70	50,000 / 20,000	EBM9920031000
614 F	60 x 60 x 15	29	24 VDC	27	□	■	1.1	-20..+70	50,000 / 20,000	EBM102FX0066
8414 NGH	80 x 80 x 25	79	24 VDC	37	□	■	2.4	-20..+70	70,000 / 35,000	EBM102FX0061
3314 NN	92 x 92 x 32	80	24 VDC	35	■	■	1.8	-20..+75	65,000 / 27,500	EBM102FX0074
4314 NN	119 x 119 x 32	190	24 VDC	41	■	■	4.0	-20..+75	72,500 / 30,000	EBM102FX0060
4414 N	119 x 119 x 38	205	24 VDC	46	■	■	5.4	-20..+70	62,500 / 30,000	EBM102FX0060
4650 N	119 x 119 x 38	160	230 V	46	□	■	19.0	-10..+55	37,500 / 27,500	EBM102FX0060
4656 N	119 x 119 x 38	160	230 V	47	■	■	19.0	-40..+85	37,500 / 15,000	EBM102FX0060
4606 N	119 x 119 x 38	180	115 V / 60 Hz	51	■	■	18.0	-40..+90	40,000 / 15,000	EBM102FX0060
ACi 4420 HH	119 x 119 x 38	175	230 V	42	■	■	4.4	-20..+75	65,000 / 25,000	EBM102FX0060
W2E142-BB01-01	150 x 172 x 38	320	230 V	51	■	■	27.0	-25..+55	60,000 / 32,000	EBM102FX0093
W2S130-AA03-01	Ø150 x 55	325	230 V	49	■	■	45.0	-25..+50	60,000 / 47,500	EBM102FX0093
W2E143-AB09-01	Ø172 x 51	420	230 V	54	■	■	26.0	-25..+60	62,000 / 39,000	EBM102FX0093
W2E200-HK38-01	225 x 225 x 80	880	230 V	59	■	■	64.0	-25..+60	-	EBM78128-2-4039
W2E250-HL06-19	280 x 280 x 80	1835	230V	69	■	■	115.0	-25..+75	-	EBM09418-2-4039

Contact us for other voltages, dimensions, performances and accessories.

Axial fans

Technical data

Dimensions: Ø200 mm – Ø1600 mm

Voltages: 100-480 VAC, 50/60 Hz; 12 - 110 VDC

Airflow rates: up to 85,000 m³/h

Power consumption: 1 W to 10 kW

Usage ranges: up to 500 Pa



Designation	Ø (mm)	Airflow (m³/h)	Voltage (VAC)	Power (W)	Speed (rpm)	Temperature (°C)	Condenser
A2D170-AA04-02	170	470	3~230/400	45	2,750	-25...+50	-
A2E250-AE65-01	250	1,660	1~230	115	2,550	-25...+55	4 µF/400 V (EBM102FC0104)

Centrifugal fans

Technical data

Dimensions: Ø85 mm – Ø1000 mm

Voltages: 100-480 VAC, 50/60 Hz;

12, 24, 48 and 110 VDC

Airflow rates: up to 45,000 m³/h

Power consumption: 1 W - 12 kW

Usage ranges: up to 2,000 Pa



Designation	Ø (mm)	Airflow (m³/h)	Voltage (VAC)	Power (W)	Speed (rpm)	Temperature (°C)	Condenser
R2E190-RA26-05	190	540	1~230	52	2,350	-25..+65	1.5 µF/400 V (EBM102FC0101)
R2E220-RA38-01	220	885	1~230	88	2,100	-25..+50	2 µF/400 V (EBM102FC0102)
R2E250-RA50-01	250	1,425	1~230	210	2,500	-25..+70	5 µF/400 V (EBM102FC0105)
G2E120-AR77-01	120	260	1~230	80	2,350	-25..+45	2 µF/400 V (EBM102FC0104)
D2E146-HT67-01	140	1,060	1~230	355	1,850	-20..+55	integrated

Multi-colour dome indicators, multi-colour dome buttons

K30L/K50L - compact, robust dome indicator using LED technology

3-colour version or RGB version (7 colours), programmable

Service life 100,000 hours, low consumption, highly visible

Supply voltage: 12...30 VDC

Operating temperature: - 40°C ...+ 50 °C

Available in food-grade FDA version



K30L



K50L + BUZZER



K50L RGB

Reference	Designation	Colour	Ø of the indicator	Base	Buzzer	Connection	Protection rating
TUR3078925	K30LGRYPQ	Green, yellow, red	30 mm	M22	No	M12, 4 poles	IP67, IP69K
TUR3802140	K30L2RGB7Q	RGB 7 colours	30 mm	M22	No	M12, 5 poles	IP67, IP69K
TUR3075671	K50LGRYPQ	Green, yellow, red	50 mm	M30	No	M12, 4 poles	IP67, IP69K
TUR3802145	K50L2RGB7Q	RGB 7 colours	50 mm	M30	No	M12, 5 poles	IP67, IP69K
TUR3802148	K50L2RGB7A1Q	RGB 7 colours	50 mm	M30	Yes, fixed 75 dB	M12, 5 poles	IP50
TUR3802154	K50L2RGB7ALSQ	RGB 7 colours	50 mm	M30	Yes, adjustable from 70 to 94 dB	M12, 5 poles	IP66, IP67, IP69K



IO-Link version also available

S22 TOUCH - Flat button, small format

1-colour 1 input version or RGB multiple input version (7 colours), programmable

Ø22 mm flush-mounted button, fully configurable via Pro Editor software

Can be operated with bare hands or when wearing gloves

Supply voltage: 10 ...30 VDC

Operating temperature: - 40°C ...+ 50°C

Available in food-grade FDA version



Reference	Designation	Colour	Output function	Output	Material	Connection	Protection rating
TUR3804320	S22AMTFGREQ	2 colours (green, red) RGB Programmable	Momentary	NO, PNP/NPN	FDA-certified plastic	M12, 5 poles	IP69K
TUR3804312	S22AMTSGREQ	2 colours (green, red) RGB Programmable	Momentary	NO, PNP/NPN	Polycarbonate	M12, 5 poles	IP67

**K30/K50 TOUCH – Compact dome button**

TOUCH technology - Ø30 and 50 mm sealed, robust dome shape

Voltage: 10-30 VDC

Operating temperature: -40°C to +50°C

Ø30 mm M22 format for K30

Ø50 mm M30 format for K50

Protection rating: IP67/IP69K



Reference	Designation	Colour	Output function	Output	Material	Connection
TUR3096518	K30APT2GREQ	Green (order) Rouge (mispick)	Momentary	NO, PNP	Polycarbonate	M12, 4 poles
TUR3096514	K30APT2GXDQ	Green (order)	Momentary	NO, PNP	Polycarbonate	M12, 4 poles
TUR3096692	K50APT2GXDQ	Green (order)	Momentary	NO, PNP	Polycarbonate	M12, 4 poles
TUR3805919	K50PTAMGRY3Q	3 colours (green, red, yellow) RGB Programmable	Momentary	NO or NC PNP/ NPN programmable	Polycarbonate	M12, 5 poles
TUR3806180	K50PTKQ	RGB multi-colour	Momentary	Programmable IO-Link	Polycarbonate	M12, 4 poles

**PRO KIT – Programming kit for EDITOR (PC only)**

Compatible:

Indicators and buttons: K30L, K50L2, S22L2, S22Touch, K50P

Lighting: WLS28 PRO, WLS27 PRO and WLS15 PRO



Reference	Designation
TUR3805818	PRO-KIT

WLS27 – Tubular linear light

Robust, sturdy lighting ideal for harsh environments. Copolyester housing resistant to chemical products. Protection rating: IP66, IP67 and IP69K. Service life: 50,000 hours- Operating temperature: -40°C ... +70°C.

Reference	Designation	Length (mm)	Colour	Connection
TUR3094274	WLS27XW145DSQ	145	daylight	M12, 4 poles
TUR3094275	WLS27XW285DSQ	285	daylight	M12, 4 poles
TUR3094276	WLS27XW430DSQ	430	daylight	M12, 4 poles
TUR3094277	WLS27XW570DSQ	570	daylight	M12, 4 poles
TUR3094278	WLS27XW710DSQ	710	daylight	M12, 4 poles
TUR3094279	WLS27XW850DSQ	850	daylight	M12, 4 poles
TUR3094280	WLS27XW990DSQ	990	daylight	M12, 4 poles
TUR3094281	WLS27XW1130DSQ	1130	daylight	M12, 4 poles

Delivered with a set of brackets. Available in cascable version and other models. Contact us.



WLS27 PRO - M12 x 4 pole connections

Reference	Designation	Technology	Length (mm)	Programming	Control
TUR3807466	WLS27PXRGBW570DSQ	RGBW LED	570	PRO EDITOR	Digital or frequency input
TUR3807467	WLS27PXRGBW570DSKQ	RGBW LED	570	IO-Link	IO-LINK

Lengths available: 145, 285, 410, 570, 850, 1130 mm.

New



IO-Link

WLB32 – Light bar

Lighting for cabinets, workstations and machines - Robust construction, aluminium housing. Power supply: 12...24 VDC or 90...220 VAC - Protection rating: IP50. Service life: 50,000 hours Cascadable version and pushbutton as standard Operating temperature: -40°C ... +60°C - DC version: M12 4 pole connections - AC version: AC connector

Version 10-30 VDC	Designation	90-264 VAC version	Designation	Length (mm)
TUR3087481	WLB32C285PBQ	TUR3087489	WLB32ZC285PBQM	285
TUR3087482	WLB32C570PBQ	TUR3087490	WLB32ZC570PBQM	570
TUR3087483	WLB32C850PBQ	TUR3087491	WLB32ZC850PBQM	850
TUR3087484	WLB32C1130PBQ	TUR3087492	WLB32ZC1130PBQM	1130

Delivered with a set of clip-on brackets. Available in other models. Contact us.



WLS28-2 – Strip light

Space-saving, low profile process lighting adapted to all types of industrial installation.

Aluminium housing - Protection rating: IP50 or IP69K according to model. Available in multi-colours (3 and 5 colours) for specific applications. Service life: 50,000 hours- Available in cascable version, pushbutton and diffuser.

Operating temperature: - 40°C ... +60°C - Power supply 10-30 VDC with M12 4 pole connections

Version IP50	Non-cascable model	IP67, IP69K version	Non-cascable model	Length (mm)
TUR3087986	WLS28-2XW145XQ	TUR3088082	WLS28-2XW145SQ	145
TUR3087987	WLS28-2XW285XQ	TUR3088083	WLS28-2XW285SQ	185
TUR3087988	WLS28-2XW430XQ	TUR3088084	WLS28-2XW430SQ	430
TUR3087989	WLS28-2XW570XQ	TUR3088085	WLS28-2XW570SQ	570
TUR3087990	WLS28-2XW710XQ	TUR3088086	WLS28-2XW710SQ	710
TUR3087991	WLS28-2XW850XQ	TUR3088087	WLS28-2XW850SQ	850

Delivered with a set of brackets. Available in other models. Contact us.



WLS15 - Compact lighting

Power supply: 12 or 24 VDC, IP67, Operating temperature: -40°C...+50°C. Available in 1 or 2 colours and now programmable RGB LED. Connections: M12 x 4 poles, 150 mm pigtail

Reference	Designation	Length (mm)
TUR3802031	WLS15XDW0220DSQP	220
TUR3802032	WLS15XDW0360DSQP	360
TUR3802033	WLS15XDW0500DSQP	500
TUR3802034	WLS15XDW0640DSQP	640
TUR3802035	WLS15XDW0920DSQP	920
TUR3802036	WLS15XDW1200DSQP	1200



WLS15 PRO - Programmable

RGB LED technology

M12 4 pole connections 150 mm pigtail

Example 500 mm length

Reference	Designation
TUR3809934	WLS15PXRGB0500DSQP via PRO EDITOR
TUR3809935	WLS15PXRGB0500DSKQP via IO-Link
TUR3809936	WLS15PXRGB0500DSSQP via Modbus

New



High efficiency, high reliability switched-mode power supplies

Adjustable from 24 to 28 VDC

Products satisfying international standards: CE, UL 508, UL 60950, RoHS, Reach

MiniLine "The small ones"

Operating temperature: -10°C to +60°C. Very sturdy plastic housing

Reference	Input (V)	Power (W)	Current (A)	Dimensions W x H x D (mm)
PULML15.241	110/230	15	0.63	22.5 x 75 x 91
PULML30.241	110/230	30	1.3	22.5 x 75 x 91
PULML60.241	110/230	60	2.5	45 x 75 x 91

Other MiniLine products: Other MiniLine voltages: 5, 10, 12, 15, 48 V. Spring-loaded connections, operation down to -40°C.



PULML30.241

PIANO "The simplified ones"

Operating temperature: -10°C to +55°C. Very sturdy plastic housing

Reference	Input (V)	Power (W)	Current (A)	Dimensions W x H x D (mm)
PULPIC120.241C	230	120	5	39 x 124 x 124
PULPIC240.241C	230	240	10	49 x 124 x 124
PULPIC480.241C	230	480	20	59 x 124 x 124

Other Piano products: 110 V input, without DC OK



PULPIC120.241C

Dimension Serie C "Les classiques"

Operating temperature: -25°C +60°C. Metal housing, 20% power reserve, large screw terminal block.

Reference	Input (V)	Power (W)	Current (A)	Dimensions W x H x D (mm)
PULCP5.241	110/230	120	5	32 x 124 x 102
PULCP10.241	110/230	240	10	32 x 124 x 117
PULCP20.241	110/230	480	20	48 x 124 x 127
PULCT5.241	400/480	120	5	40 x 124 x 117
PULCT10.241	400/480	240	10	62 x 124 x 117

Other Dimension Série C products: Other voltages: 12, 15, 36, 48 V. Input range limited to 230 V. Spring-loaded terminal blocks. Tropicalisation. Active PFC



PULCT10.241



PULCP10.241

Dimension Serie Q "Les surdouées"

Operating temperature: -25°C - 60°C. Metal housing, 50% power reserve. Spring-loaded terminal block except for Qx 40. Excellent resistance to momentary power outages. Very low inrush current upon start-up. Parallel and series connection possible. DC-OK signal except for QS 3. Active PFC and good power factor. Active harmonics correction.

Reference	Input (V)	Power (W)	Current (A)	Dimensions W x H x D (mm)
PULQS3.241	110/230	90	3.4	32 x 124 x 102
PULQS5.241	110/230	120	5	40 x 124 x 117
PULQS10.241	110/230	240	10	60 x 124 x 117
PULQS20.241	110/230	480	20	82 x 124 x 127
PULQS40.241	110/230	960	40	125 x 124 x 127
PULQT20.241	400/480	480	20	65 x 124 x 127
PULQT40.241	400/480	960	40	110 x 124 x 127

Other Dimension Série Q products: Other voltages: 12, 15, 36, 48 V. Input range limited to 230 V. Tropicalisation. ATEX standard. Direct current input



PULQT20.241

24 VDC UPS

Purpose: Ensure installations continue to operate in the event of short or long 24 VDC power outages.

UF and UC: Solutions with capacitors - UB: Solutions with batteries



	Current to back up					
Back-up time	0.5 A	1 A	2.5 A	5 A	10 A	20 A
< 50 ms	PULS power supplies offer excellent resistance to momentary power outages					
250 ms	PULUF20.241	PULUF20.241	PULUF20.241	PULUF20.241	PULUF20.241	PULUF20.241
< 1 s	PULUF20.241	PULUF20.241	PULUF20.241	PULUF20.241	PULUC10.241	PULUB20.241 +PULUZK24.071
5 s	PULUF20.241	PULUF20.241	PULUC10.241	PULUC10.241	PULUC10.241	PULUB20.241 +PULUZK24.071
10 s	PULUF20.241	PULUC10.241	PULUC10.241	PULUC10.241	PULUC10.241	PULUB20.241 +PULUZK24.071
30 s	PULUC10.241	PULUC10.241	PULUC10.241	PULUC10.241	PULUC10.242	PULUB20.241 +PULUZK24.071
1 minute	PULUC10.241	PULUC10.241	PULUC10.241	PULUC10.242	PULUBC10.241	PULUB20.241 +PULUZK24.071
5 minutes	PULUC10.241	PULUBC10.241	PULUBC10.241	PULUBC10.241	PULUBC10.241	PULUB20.241 +PULUZK24.071
10 minutes	PULUBC10.241	PULUBC10.241	PULUBC10.241	PULUBC10.241	PULUB10.241 +PULUZK12.261	PULUB20.241 +PULUZK24.071
30 minutes	PULUBC10.241	PULUBC10.241	PULUBC10.241	PULUB10.241 +PULUZK12.261	PULUB10.241 +PULUZK12.261	Contact us
1 hour	PULUBC10.241	PULUBC10.241	PULUB10.241 +PULUZK12.261	Contact us		
5 hours	PULUB10.241 +PULUZK12.071	Contact us				
10 hours	PULUB10.241 +PULUZK12.261					

UF: Electrolytic capacitor solutions

UC: "Supercap" capacitor solutions

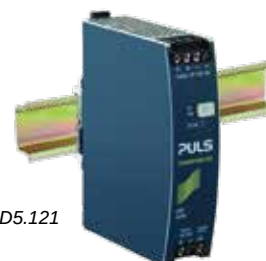
UBC: Solutions with built-in battery

UB: Solutions with external battery

DIN-rail DC/DC converters

Reference	Input (V)	Output (V)	Power (W)
PULCD5.051	24	5-5.5	50
PULCD5.121	24	12-15	96
PULCD5.243	12	24-28	96
PULCD5.241	24	24-28	120
PULCD5.242	48	24-28	120

Most PULS power supplies accept DC input voltages: 100, 110, 150, 300 VDC



PULCD5.121

Redundancy module

Redundancy solution = 2 independent DC sources + 1 redundancy module (diode or Mosfet) accepting the sum of the currents from the 2 sources + monitoring of the proper operation of the 2 sources).

Reference	Input (V)	Output (V)	Current (A)
PULYR20.242	12 - 28	12 - 28	20
PULYR40.242	12 - 28	12 - 28	40
PULYR80.242	12 - 28	12 - 28	80
PULYR40.482	24 - 56	24 - 56	40

Technology: Mosfet

CONT330001PULS04



PULYR40.242

Surface-mounted LED luminaires for machines

MACH LED +40, IP67, 24 VDC, connection via M12 connector, A-coded

Reference	Model	Power	Dimensions (mm)	Special Characteristics
WAL00660033	MLAL 12 S	5 W	190 x 40	Beam angle 40° (optics)
WAL00660681	MLAL 27 S	10.5 W	365 x 40	Beam angle 40° (optics)
WAL00660684	MLAL 42 S	16 W	540 x 40	Beam angle 40° (optics)
WAL00662806	MLAL 57 S	21.5 W	715 x 40	Beam angle: 90° reflector
WAL00660687	MLAL 57 S	21.5 W	715 x 40	Beam angle 40° (optics)



Accessories

Reference	Designation
WAL00671626	Fastening kit
RKT42255M	5 m PUR cable with 4-pole female M12 connector (other cables and lengths, see catalogue, LUMBERG page)



WAL00671626

MACH LED +70, surface-mounted luminaires for machines

Reference	Model	Power	Supply voltage	Length
WAL00580702	MQAL 12S	5 W	18-30 VDC	370 mm
WAL00580588	MQAL 18S	7.5 W	18-30 VDC	510 mm
WAL00580612	MQAL 18S	7.5 W	18-30 VDC	565 mm
WAL00580639	MQAL 24S	10 W	18-30 VDC	650 mm
WAL00580663	MQAL 30S	13 W	18-30 VDC	790 mm
WAL00580675	MQAL 42S	18 W	18-30 VDC	1070 mm



WAL00580***

IP 67. Connection with M12 connector. Available in 230 V. Available in double LED "power" model.

Accessories

Reference	Designation
WAL00582065	Fastening kit



WAL00582065

TEVISIO. 13 W LED magnifier luminaire, dimmable

Reference	Power	Equipment	Supply voltage	Special feature	Model
WAL00800659	13 W	transformer in plug	100/240 V, 50/60 Hz	arm length: 784 mm	TVD 750/940/DM

Additional accessories: clamp, bracket, wall-mounting: contact us.



WAL00800659

High-power LED luminaires on 600 mm metal tube or 800 mm hinged arm

Supply voltage	Beam angle	Technique	Flexible tube reference	Hinged arm reference
100-240 V, 50/60 Hz	10°	transformer in head	WAL00668996	WAL00679131
100-240 V, 50/60 Hz	40°	transformer in head	WAL00680251	WAL00680167
24 V, AC/DC	10°	without transformer	WAL00680272	WAL00680110
24 V, AC/DC	40°	without transformer	WAL00680285	WAL00680208



TANEO. Universal arm-mounted luminaire, glare control diffuser, 4000 K, 14 W to 34 W

Reference	Power	Equipment	Supply voltage	Special feature	Model
WAL00544167	14 W	Transformer in plug	100 - 240 V, 50/60 Hz	Colour temperature 4000 K	STZL 12 R
WAL00740166	24 W	Transformer on cord	100 - 240 V, 50/60 Hz	Colour temperature 4000 K	STZL 24 R
WAL00741202	34 W	Transformer on cord	100 - 240 V, 50/60 Hz	Colour temperature 4000 K	STZL 36 R

Additional accessories: clamp, bracket, wall-mounting: contact us.



WAL00544167

WIRING COMPONENTS

TITLE	BRAND	PAGE
Wiring terminals	TE CONNECTIVITY	C.2
Connection terminals	TE CONNECTIVITY	C.3
Cable glands	AGRO	C.4
Installation and cable ties	ELEMATIC	C.6
Collars, sleeves and sheaths, insulating tapes	ELEMATIC	C.7
Heat-shrinkable sheaths	ELEMATIC	C.8
Wire end sleeves and pre-insulated lugs	ELEMATIC	C.9
Cable glands	DELAUNAY	C.10
Clamp collars, wall plugs and screw-mounted bases	HELLERMAN	C.12
Fasteners, identification and embossing machine	HELLERMAN	C.13
Detectable solutions for the food industry	HELLERMAN	C.14
Electrical installation tape and connection terminals	HELLERMAN	C.15
Heat-shrinkable sheaths	HELLERMAN	C.16
Expandable sleeves - Identification	HELLERMAN	C.17
Pre-insulated lugs	MECATRACTION	C.18
Power terminal lugs	MECATRACTION	C.19
Wire-end sleeves	MECATRACTION	C.20
Crimping tools	MECATRACTION	C.21
PLIO-V identification system	SES	C.22
PLIOSIL sleeving, HELAVIA sleeves	SES	C.23
Distribution boxes	TEKNOMEGA	C.24
Shunts, threaded copper bars	TEKNOMEGA	C.25
Rails, insulators, earthing straps	TEKNOMEGA	C.26
COFLEX - Insulated flexible bars	TEKNOMEGA	C.27
Cable ties and insulating cable trays	UNEX	C.28
Distribution and panel trunking	UNEX	C.29
Tooling	KNIPLEX	C.30
Cable entry systems	ICOTEK	C.32
GN panel trunking	SES	C.34
Profiles	PROFILATI	C.35
Identification system	PARTEX	C.35
Identification	BRADY	C.36
Tooling	WERA	C.37
Earth straps and cable protection systems	TRESSAGE DU DORLAY	C.38

SNK terminal blocks with screw technology



Type	ZS4	ZS4-D2	ZS6	ZS6-D2	ZS10	ZS16	ZS25	ZS35	ZS70
Cross-section mm ²	4	Double deck 4	6	Double deck 6	10	16	25	35	70
Pitch mm	5	5	6	6	8	10	12	16	22
Grey connection	505010R00	505210R00	506010R00	506210R00	508010R00	510010R00	512010R00	516010R00	522010R00
Neutral connect.	505020R00	505220R00	506020R00	506220R00	508020R00	510020R00	512020R00	516020R00	522020R00
Earth	505150R00	505230R00	506150R00	506230R00	508150R00	510150R00	512060R00	516150R00	522150R00
Grey end cover	505910R00	505960R00	505910R00	505960R00	505910R00	505910R00	505910R00	closed block	closed block
Jumper bar 10 poles	905310R00	905310R00	906310R00	906310R00	908310R00	910310R00	912305R00*	916310R00	922310R00

The reference must be completed with the following prefix and suffix: **1SNKXXXXXXRXX00**

Except ref * 5-pole version

SNK PI-Spring terminal blocks



Type	ZK2.5	ZK4	ZK6	ZK10	ZK16	ZK2.5-3P	ZK4-3P	ZK6-3P	ZK2.5-D2
	2 connection points					3 connection points			Double deck
Cross-section mm ²	2.5	4	6	10	16	2.5	4	6	2.5
Pitch mm	5	6	8	10	12	5	6	8	5
Grey connection	705010R00	706010R00	708010R00	710010R00	712010R00	705011R00	706011R00	708011R00	705210R00
Neutral connection	705020R00	706020R00	708020R00	710020R00	712020R00	705021R00	706021R00	708021R00	705220R00
Earth	705150R00	706150R00	708150R00	710150R00	712150R00	705151R00	706151R00	708151R00	705212R00
Grey end cover	705910R00	705910R00	705910R00	710910R00	710910R00	705911R00	705911R00	708911R00	705960R00
Jumper bar 10 poles	905310R00	906310R00	908310R00	910305R00*	912305R00*	905310R00	906310R00	908310R00	905310R00

The reference must be completed with the following prefix and suffix: **1SNKXXXXXXRXX00**

Except ref * 5-pole version

SNK blade or fuse disconnect terminals



Type	ZS4-S	ZS4-SF1	Z2.5-S	Z2.5-SF
	Grey block orange blade	Fuse 5x20/25	Grey block orange blade	Fuse 5x20
Cross-section mm ²	4	4	2.5	2.5
Pitch mm	5	8	5	5
Connection	Screw	Screw	PI-Spring	PI-Spring
Connection	505310R00	508410R00	705310R00	706410R00
End cover	505910R00	508960R00	705911R00	705911R00

The reference must be completed with the following prefix and suffix: **1SNKXXXXXXRXX00**

End stops for SNK



Terminals < 35 mm ²	Terminals > 16 mm ²	End stop without screws
900001R00	900102R00	900002R00

The reference must be completed with the following prefix and suffix: **1SNKXXXXXXRXX00**

Terminal block marker system for SNK

Type	MC512	MC612	MC812
Compatible with terminal pitch	5,6,8 and >8	6,8 and >8	8 and >8
blank	140000R00	150000R00	160000R00
1 to 10	140011R00	150011R00	160011R00
1 to 100	145011R00	155011R00	165011R00

SNA terminal blocks with screw technology



Type	M2.5/5	M2.5/5	M4/6	M4/6.D2	M2.5/6	M6/8	M10/10	M16/12	M35/16	D70/22
Cross-section mm ²	2.5	Double deck 2.5	4	Double deck 4	Triple deck 2.5 6	6	10	16	35	70
Pitch mm	5	5	6	6	6	8	10	12	16	22
Connection*	115486R03	115490R13	115116R07	115271R22	115541R11	115118R11	115120R17	115129R14	115124R07	400305R10
End cover*	118368R16	118499R23	118368R16	118499R23	116771R20	118368R16	118368R16	118618R01	closed block	closed block

The reference must be completed with the following prefix and suffix: **1SNA**XXXXXXXXXX**00**

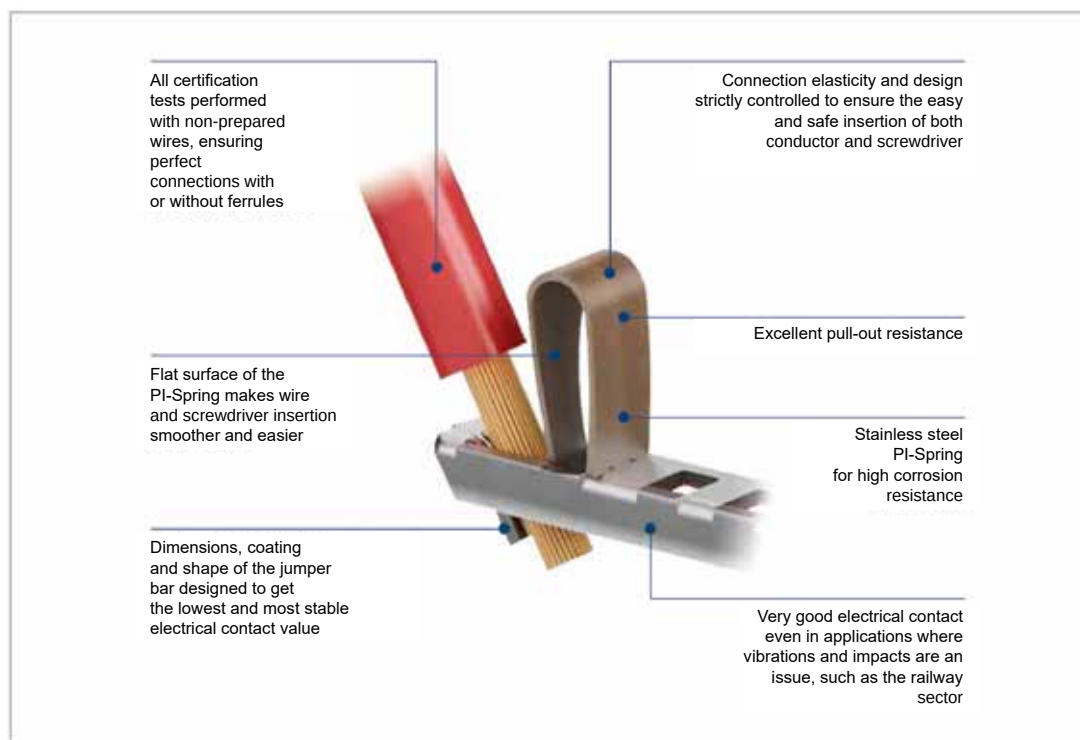
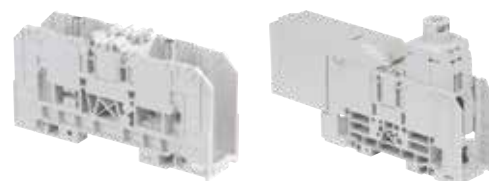
*Blue terminals and end covers have a 2 instead of a 1, i.e. 125116 instead of 115116.

SNA power terminal blocks

Type	35/27	70/32	120/42	185/55	300/55
Cross-section mm ²	35	70	120	185	300
Pitch mm	27	32	42	55	55
Connection	Stud or wire clamp				
Stud/Stud*	190001R20	190002R21	190003R22	190004R23	190005R24
Cover	190016R16	190017R17	190018R20	190019R21	190019R21
Stud/wire clamp	190006R25	190007R26	190008R07	190009R00	-
2-pole busbar	205772R13	205774R15	205776R17	205778R21	205778R21
3-pole busbar	205773R14	205775R16	205777R10	205779R22	205779R22

The reference must be completed with the following prefix and suffix: **1SNA**XXXXXXXXXX**00**

*: order 2 covers per block



Cable glands

Syntec® brass cable glands with lamellar technology

Metric thread

Materials: Nickel-plated brass

Sealing ring: TPE

Lamellar insert: Polyamide PA 6

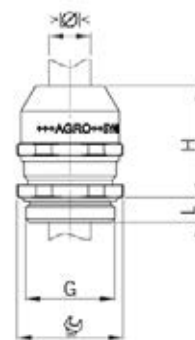
Tested according to: EN 62444

Operating temperature: -40°C / +100°C

Protection: IP 68



One-piece sealing ring, not insulated over the entire length								Metric thread	
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Item No.		Item No.	
M12x1.5	3.0	7.0	15	17	5	AGR104512070	50	AGR800012	100
M16x1.5	4.5	10.0	18	20	5	AGR104517100	50	AGR800017	100
M20x1.5	7.0	13.0	22	25	6	AGR104520130	50	AGR800020	100
M25x1.5	10.0	17.0	28	31	7	AGR104525170	25	AGR800025	50
M32x1.5	13.0	21.0	36	33	8	AGR104532210	25	AGR800032	25
M40x1.5	19.0	28.0	46	40	8	AGR104540280	10	AGR800040	25
M50x1.5	25.0	35.0	55	40	9	AGR104550350	5	AGR800050	10
M63x1.5	35.0	48.0	70	43	10	AGR104563480	5	AGR800063	10



Syntec® synthetic cable glands with lamellar technology

Metric thread

Materials: Polyamide PA 6

Properties: halogen-free

Sealing ring: TPE

Tested according to: EN 62444

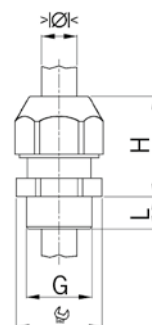
Operating temperature: -30°C / +100°C

Protection: IP 68



One-piece sealing ring, light grey RAL 7035								Metric thread	
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Reference		Reference	
M12x1.5	2.5	6.5	15	21	6	AGR15551206	100	AGR825512	100
M16x1.5	4.5	10.0	19	25	8	AGR15551710	50	AGR825517	100
M20x1.5	7.0	13.0	24	29	9	AGR15552013	50	AGR825520	100
M25x1.5	10.0	17.0	29	38	10	AGR15552517	25	AGR825525	100
M32x1.5	17.0	25.0	42	36	10	AGR15553225	20	AGR825532	50
M40x1.5	22.0	33.0	53	48	15	AGR155540133	10	AGR825540	50
M50x1.5	28.0	38.0	60	48	15	AGR155550138	5	AGR825550	10
M63x1.5	32.0	44.0	65	49	16	AGR155563144	5	AGR825563	10

Also available with long thread



Pg thread



One-piece sealing ring, light grey RAL 7035								Pg thread	
G	>Ø< min mm	>Ø< max mm	mm	H mm	L mm	Reference		Reference	
Pg 7	2.5	6.5	15	21	8	AGR15550706	100	AGR825507	100
Pg 9	3.0	8.0	19	23	8	AGR15550908	50	AGR825509	100
Pg 11	4.0	10.0	22	25	8	AGR15551110	50	AGR825511	100
Pg 13	5.5	12.0	24	26	9	AGR15551312	50	AGR825513	100
Pg 16	8.5	14.0	27	30	10	AGR15551614	50	AGR825516	100
Pg 21	11.0	18.0	33	35	11	AGR15552118	25	AGR825521	50
Pg 29	17.0	25.0	42	36	11	AGR15552925	20	AGR825529	50
Pg 36	22.0	33.0	53	48	15	AGR15553633	10	AGR825536	25
Pg 42	28.0	38.0	60	48	15	AGR15554238	5	AGR825542	10
Pg 48	32.0	44.0	65	48	15	AGR15554844	5	AGR825548	10

Cable glands

easyCONNECT Progress® EMC cable glands with contact spring

Short metric thread

Materials: Nickel-plated brass

Contact spring: 1.4310 spring steel

Seal: TPE

O-ring: NBR

Pull-out resistance: Strain relief version A according to
EN 62444

Operating temperature: -60°C / +100°C

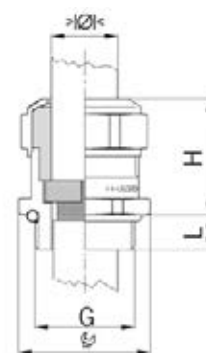
Protection: IP 68 (up to 10 bar)

Additional protection: IP 69

Properties: For quick, safe installation of partially stripped wires and wires with shielding continuity.



Two-piece sealing insert, not insulated over the entire length									
G	>Ø< min mm	>Ø< max mm	>Ø< max mm	>Ø< max mm	mm	H mm	L mm	Item No.	Item No.
M12x1.5	-	-	3.5	5.0	15	22	5	AGR108312050	AGR801285
M12x1.5	-	-	5.0	6.5	15	22	5	AGR108312065	AGR801285
M16x1.5	6.0	8.0	8.0	10.5	18	25	5	AGR108317	AGR801785
M20x1.5	8.0	11.0	11.0	15.0	24	27	6	AGR108320	AGR802085
M25x1.5	12.5	16.0	16.0	20.5	30	33	7	AGR108325	AGR802585
M32x1.5	17.0	21.0	21.0	25.5	36	33	8	AGR108332	AGR803285
M40x1.5	24.0	28.5	28.5	33.0	46	38	8	AGR108340	AGR804085
M50x1.5	33.0	37.0	37.0	42.0	55	42	9	AGR108350	AGR805085
M63x1.5	40.0	46.0	46.0	52.0	70	42	10	AGR108363	AGR806385



Progress® A2 stainless steel cable glands

Long metric thread

Materials: CrNi A2 stainless steel (DIN EN 1.4305 / AISI 303)

Marking: 1 groove

Seal: FPM

O-ring: FPM

Pull-out resistance: Strain relief version A according to EN 6

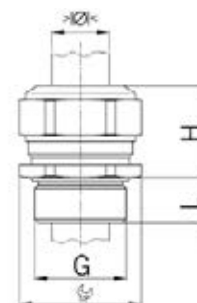
Operating temperature: -40°C / +200°C

Protection: IP 68 (up to 10 bar)

Additional protection: IP 69



Two-piece sealing insert, not insulated over the entire length									
G	>Ø< min mm	>Ø< max mm	>Ø< max mm	>Ø< max mm	mm	H mm	L mm	Item No.	Item No.
M16x1.5	6.0	8.0	8.0	10.5	19	20	10	AGR11001794	AGR801796
M20x1.5	8.0	11.0	11.0	15.0	24	21	10	AGR11002094	AGR802096
M25x1.5	12.5	16.0	16.0	20.5	30	25	11	AGR11002594	AGR802596
M32x1.5	17.0	21.0	21.0	25.5	36	28	13	AGR11003294	AGR803296
M40x1.5	24.0	28.5	28.5	33.0	46	31	13	AGR11004094	AGR804096
M50x1.5	33.0	37.0	37.0	42.0	55	34	14	AGR11005094	AGR805096
M63x1.5	40.0	46.0	46.0	52.0	70	37	14	AGR11006394	AGR806396



BELTURING PLUS installation cable ties

Operating temperature -45°C to +85°C. Fire rating UL94 class HB.

Compliant with EDF HN 33 S 62 tests – RoHS. Other types of cable tie on request.

Reference	Easy Belturing reference	Size (mm)	Tensile strength (N)	Pkg
ELE6447X	-	132 x 9	390	100
ELE6451X	ELE6551	180 x 9	390	100
ELE6453X	ELE6553	260 x 9	540	100
ELE6455X	ELE6555	360 x 9	540	100
ELE6456X	-	510 x 9	540	100
ELE6457X	-	760 x 9	540	100
ELE5458	-	Wall plugs	-	100
ELE1041301	-	Screw-on bases	-	100
ELE5400C	-	Tensioning tool for cable ties		



ELE5458E



ELE1041301



ELE6553E

ELE64..XE
ELE65..E

ELE5400C

Cable ties

Polyamide 6.6 cable ties, widths 2.2 to 12.5 mm. operating temperature -40°C to +85°C.

Fire rating UL94 class V2 - EN50146 - oHS. Colours available on request.

Reference		Size (mm)	Tensile strength (N)	Pkg
White	Black			
ELE5203C	ELE5303C	98 x 2.5	80	100
ELE5205C	ELE5305C	135 x 2.5	80	100
ELE5206C	ELE5306C	160 x 2.6	80	100
ELE5207C	ELE5307C	200 x 2.6	80	100
ELE5209C	ELE5309C	140 x 3.6	130	100
ELE5210C	ELE5310C	290 x 3.6	130	100
ELE5213C	ELE5313C	178 x 4.8	220	100
ELE5214C	ELE5314C	200 x 3.6	130	100
ELE5215C	ELE5315C	200 x 4.8	220	100
ELE5217	ELE5317	290 x 4.8	220	100
ELE5219	ELE5319	360 x 4.5	220	100
ELE5473RB	ELE5475RB	Adhesive bases 27 x 27		100
ELE5467RB	ELE5469RB	Adhesive bases 19 x 19		100
ELE5401	Tensioning tool for cable ties 2.2 to 4.8 mm			



ELE52..CE

ELE53..CE



ELE54..RBE



ELE5401

2-Lock cable ties

Polyamide 6.6 cable ties with 316 stainless steel cage with 2 metal tabs.

Operating temperature -40°C to 85°C, installation temperature -40°C to 60°C, fire rating UI 94 class V2, halogen-free

Reference		Dimension (mm)	Pkg
White	Black		
ELE1203	ELE1303	2.5 x 100	100
ELE1207	ELE1307	2.5 x 200	100
ELE1209	ELE1309	3.5 x 140	100
ELE1214	ELE1314	3.5 x 200	100
ELE1210	ELE1310	3.5 x 290	100
ELE1215	ELE1315	4.5 x 200	100
ELE1216	ELE1316	4.5 x 120	100
ELE1217	ELE1317	4.5 x 290	100
ELE1219	ELE1319	4.5 x 360	100
ELE1225	ELE1325	7.5 x 220	100
ELE1227	ELE1327	7.5 x 360	100



Detectable cable ties

Detectable cable ties are available in 7 sizes.

Width 2.5 to 7.5 mm, length up to 365 mm. Tensile strength up to 540 N.

Reference	Dimensions (mm)	Max. bundle Ø (mm)	Tensile strength (N-kg)	Pkg
ELE5209CDT	3.5 x 140	35	130 - 13.26	100
ELE5215CDT	4.8 x 200	50	220 - 22.44	100
ELE5219DT	4.5 x 360	79	220 - 22.44	100



ELE52

AISI 304 stainless steel cable ties with ball locking mechanism

Moisture absorption: none. Operating temperatures: -80°C to 538°C.

Reference	Dimensions (mm)	Max. bundle Ø (mm)	thickness (mm)	Tensile strength		Pkg
				(kg)	(N)	
ELE6701	4.6 x 127	25	0.25	46	900	100
ELE6703	4.6 x 201	50	0.25	46	900	100
ELE6706	4.6 x 266	67	0.25	46	900	100
ELE6708	4.6 x 362	102	0.25	46	900	100
ELE6710	4.6 x 521	152	0.25	46	900	50
ELE6712	4.6 x 838	254	0.25	46	900	50
ELE6719	7.9 x 201	50	0.25	114	2000	100
ELE6720	7.9 x 266	67	0.25	114	2000	100
ELE6722	7.9 x 362	102	0.25	114	2000	100
ELE6724	7.9 x 521	152	0.25	114	2000	50
ELE6726	7.9 x 838	254	0.25	114	2000	50
ELE6728	7.9 x 1067	305	0.25	114	2000	50
ELE5407	Tensioning tool for metal cable ties					



ELE67..



ELE5407

Spiral wraps

Polyethylene materials, available in Black and Natural

Operating temperature -50°C to +85°C. Halogen-free

Natural ref.	Black ref.	Min. Ø (mm)	Max. Ø (mm)	Qty (m)
ELESP2	ELESP2N	3	15	50
ELESP4	ELESP4N	4	20	25
ELESP6	ELESP6N	7	40	25
ELESP9	ELESP9N	9	50	25
ELESP12	ELESP12N	11	70	25
ELESP15	ELESP15N	13	80	20
ELESP20	ELESP20N	18	120	25
ELESP25	ELESP25N	23	150	20



Self-amalgamating insulating tape

Adhesive tape for cable insulation.

Operating temperature -40 to 100°C. Dielectric strength 42 kV/mm

Reference	Designation	Pkg
ELENI69A	Self-amalgamating insulating tape Width 19 mm - Thickness. 0.75 mm - Length 10 m	1



ELENI 69A

Heat-shrinkable sheaths

ET100 - Thin wall

Self-extinguishing according to UL 224, 125°C. Shrinkage ratio 2/1 at a temperature > 90°C.

Operating temperature -55°C to 135°C. Colour: Contact us.

Reel		Pikobox dispenser box		Length 1 m		Ø (mm)	
Reference	Qty (m)	Reference	Qty (m)	Reference	Qty (m)	Before shrinking	After shrinking
ELE12203012	200	ELE12253012xx	15	ELE12273012xx	30	1.2	0.6
ELE12203016	200	ELE12253016xx	15	ELE12273016xx	30	1.6	0.8
ELE12203024	200	ELE12253024xx	15	ELE12273024xx	30	2.4	1.2
ELE12203032	200	ELE12253032xx	15	ELE12273032xx	30	3.2	1.6
ELE12203048	200	ELE12253048xx	12	ELE12273048xx	24	4.8	2.4
ELE12203064	150	ELE12253064xx	12	ELE12273064xx	24	6.4	3.2
ELE12203095	150	ELE12253095xx	10	ELE12273095xx	20	9.5	4.7
ELE12203127	100	ELE12253127xx	8	ELE12273127xx	16	12.7	6.4
ELE12203190	50	ELE12253190xx	5	ELE12273190xx	10	19.1	9.5
ELE12203254	50	ELE12253254xx	3	ELE12273254xx	6	25.4	12.7
ELE12203381	25	-	-	ELE12273381xx	4	38.1	19.1
ELE12203508	25	-	-	ELE12273508xx	3	50.8	25.4
ELE12203762	15	-	-	ELE12273762xx	3	76.2	38.1
ELE12203994	15	-	-	ELE12273994xx	3	101.6	50.8

Standard colours: XX: black " "; white "BI"; blue "BL"; red "R"; transparent "TR"



ELE122...

ET100 Green/ Yellow

Self-extinguishing according to UL 224, 125°C. Shrinkage ratio 2/1 at a temperature > 90°C.

Operating temperature -55°C to 135°C

Pikobox dispenser box		Length 1 m		Ø (mm)	
Reference	Qty (m)	Reference	Qty (m)	Before shrinking	After shrinking
-	-	ELE12273012GV	30	1.2	0.6
-	-	ELE12273016GV	30	1.6	0.8
ELE12253024GV	15	ELE12273024GV	30	2.4	1.2
ELE12253032GV	15	ELE12273032GV	30	3.2	1.6
ELE12253048GV	12	ELE12273048GV	24	4.8	2.4
ELE12253064GV	12	ELE12273064GV	24	6.4	3.2
ELE12253095GV	10	ELE12273095GV	20	9.5	4.7
ELE12253127GV	8	ELE12273127GV	16	12.7	6.4
ELE12253190GV	5	ELE12273190GV	10	19.1	9.5
ELE12253254GV	3	ELE12273254GV	6	25.4	12.7
-	-	ELE12273381GV	4	38.1	19.1
-	-	ELE12273508GV	3	50.8	25.4



ELE122...

EM 100A - Medium wall with adhesive

Shrinkage ratio 3/1 at a temperature > 110°C. Operating temperature -40°C to 120°C.

Dielectric strength > 17 kV/mm. Available colour: Black

Length 1 m		Ø (mm)	
Reference	Qty (m)	Before shrinking	After shrinking
ELE12247012	25	12	3
ELE12247019	15	22	6
ELE12247030	10	33	8
ELE12247040	5	40	12
ELE12247050	3	55	17
ELE12247063	3	65	19
ELE12247070	2	72	22
ELE12247095	1	92	26
ELE12247115	1	115	35
ELE12247140	1	180	60

**Hot-air gun**

2 positions 800 W (300°C) and 1500 W (500°C)

Reference	Power (W)	Voltage (V)
ELE12200016	1600	230-240

Wire end sleeves and pre-insulated lugs

Wire end sleeves

Polypropylene insulated end sleeve. Operating temperature -10°C to 105°C. Compliant with standard DIN 46228/4 and NFC 63-023 - ROHS.

Reference	Colour T	Cross-section (mm²)	Pkg
ELEE034		0.25	500
ELEE036		0.34	500
ELEE02		0.5	500
ELEE05		0.75	500
ELEE09		1.0	500
ELEE13		1.5	500
ELEE16		2.5	500
ELEE19		4	500
ELEE22		6	100
ELEE24		10	100
ELEE26		16	100
ELEE28		25	50
ELEE30		35	50
ELEE32		50	50



Twin-wire pre-insulated end sleeves

Cross-section (mm²)	Reference	Colour D	Reference	Colour T	Pkg
2 x 0.50	ELE11031002		ELE11031002		500
2 x 0.75	ELE11031005		ELE11031005T		500
2 x 1.00	ELE11031009		ELE11031009		500
2 x 1.50	ELE11031013		ELE11031013		500
2 x 2.50	ELE11031016		ELE11031016T		250
2 x 4.00	ELE11031019		ELE11031019T		100
2 x 6.00	ELE11031022		ELE11031022T		100
2 x 10.00	ELE11031024		ELE11031024T		100
2 x 16.00	ELE11031026		ELE11031026T		50

Pre-insulated wire-end sleeve reels

Reference	Colour T	Cross-section (mm²)	Pkg
ELEE02B		0.5	500
ELEE05B		0.75	500
ELEE09B		1.0	500
ELEE13B		1.5	500
ELEE16B		2.5	500



Crimping tools for wire-end sleeves

Reference	Pkg	Cross-section (mm²)
ELE9039A	1	0.5 to 6.00
ELE9039	1	6 to 16.00
ELE9302	1	0.08 to 10



Nylon ring terminals

Cross-section mm²	Terminal Ø mm	Reference	Pkg
0.25 to 1.5	4	ELE11201143	100
	5	ELE11201150	100
	6	ELE11201161	100
1.5 to 2.5	5	ELE11201250	100
	6	ELE11201261	100
	8	ELE11201280	100
4 to 6	6	ELE11201460	100
	8	ELE11201480	100
	10	ELE11201491	100



Other models: Contact us.

Nylon fork terminals

Cross-section mm²	Terminal Ø mm	Reference	Pkg
0.25 to 1.5	3	ELE11202135	100
	4	ELE11202140	100
	5	ELE11202150	100
1.5 to 2.5	4	ELE11202242	100
	5	ELE11202250	100
	6	ELE11202261	100
4 to 6	5	ELE11202450	100
	6	ELE11202460	100
	8	ELE11202480	100



Other models: Contact us.

Female Faston nylon terminals size 6.35 x 0.8

Cross-section (mm²)	Pre-insulated reference	Fully insulated reference	Pkg
0.25 to 1.5	ELE11231163	ELE11235163	100
1.5 to 2.5	ELE11231263	ELE11235263	100
4 to 6	ELE11231463	ELE11235463	100

Other models: Contact us.

Male Faston nylon terminals, size 6.35 x 0.8

Cross-section (mm²)	Pre-insulated reference	Fully insulated reference	Pkg
0.25 to 1.5	ELE11230163	ELE11236163	100
1.5 to 2.5	ELE11230263	ELE11236263	100
4 to 6	ELE11230463	ELE11236463	100

Other models: Contact us.



Insulated sleeves

Cross-section (mm²)	Reference	Pkg
0.25 to 1.5	ELE11220140	100
1.5 to 2.5	ELE11220250	100
4 to 6	ELE11220465	100

Other models: Contact us.



Cable glands

Polyamide 6 cable glands with integrated anchorage

Protection rating: IP 68 - (-20°C +100°C) - RAL 7035 - NFC68311 - DIN40430.

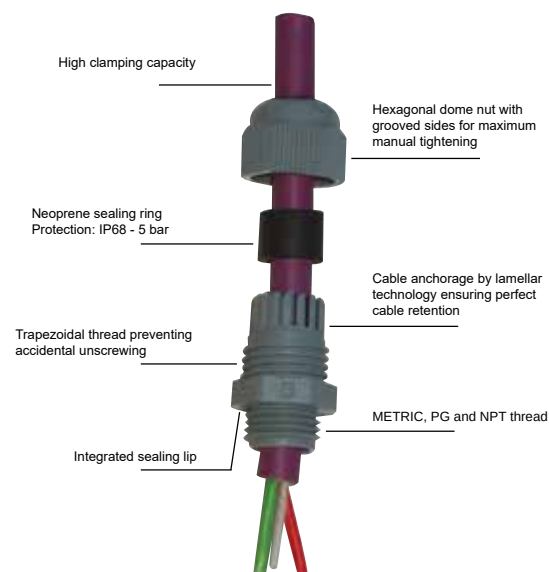
Cable gland reference	PG	Clamping capacity (mm)	Nut reference
DEL40007	7	3 ... 6.5	DEL41007
DEL40009	9	4 ... 8	DEL41009
DEL40011	11	5 ... 10	DEL41011
DEL40013	13	6 ... 12	DEL41013
DEL40016	16	10 ... 14	DEL41016
DEL40021	21	13 ... 18	DEL41021
DEL40029	29	18 ... 25	DEL41029
DEL40036	36	22 ... 32	DEL41036
DEL40042	42	30 ... 38	DEL41042
DEL40048	48	34 ... 44	DEL41048



Polyamide 6 cable glands with integrated anchorage

Protection rating: IP 68 - (-20°C +100°C) - RAL 7035 - NFC68311 - DIN40430.

Cable gland reference	Metric thread	Clamping capacity (mm)	Nut reference
DEL40112	M12 x 1.5	3 ... 6	DEL41112
DEL40116	M16 x 1.5	5 ... 10	DEL41116
DEL40120	M20 x 1.5	8 ... 13	DEL41120
DEL40125	M25 x 1.5	11 ... 17	DEL41125
DEL40132	M32 x 1.5	15 ... 21	DEL41132
DEL40140	M40 x 1.5	19 ... 28	DEL41140
DEL40150	M50 x 1.5	27 ... 35	DEL41150
DEL40163	M63 x 1.5	32 ... 42	DEL41163



Perfect EMC nickel-plated brass cable gland

Protection rating: IP 68 - up to 5 bar.

Cable gland reference	PG	Clamping capacity (mm)	Nut reference
DEL50707	7	3-6.5	DEL3331
DEL50709	9	4-8	DEL3332
DEL50711	11	5-10	DEL3333
DEL50713	13	6-12	DEL3334
DEL50716	16	10-14	DEL3335
DEL50721	21	13-18	DEL3336
DEL50729	29	18-25	DEL3337
DEL50736	36	22-32	DEL3338
DEL50742	42	30-38	DEL3339

Perfect EMC nickel-plated brass cable gland, metric pitch

Protection rating: IP 68 - DIN 46319.

Cable gland reference	Metric thread	Clamping capacity (mm)	Hexagon nut reference
DEL50749	M12 x 1.5	3...6	DEL3341
DEL50750	M16 x 1.5	5...10	DEL3342
DEL50751	M20 x 1.5	8...13	DEL3343
DEL50752	M25 x 1.5	11...17	DEL3344
DEL50753	M32 x 1.5	15...21	DEL3345
DEL50754	M40 x 1.5	19...28	DEL3346
DEL50755	M50 x 1.5	27...35	DEL3347
DEL50756	M63 x 1.5	32...42	DEL3348
DEL50756B	M63 x 1.5	38...48	DEL3348



Self-extinguishing



Spiral



Metric right-angle



Perfect FIX



Metric flat wire



Multi-wire

Cable glands

“Perfect” nickel-plated brass cable glands

Protection rating: IP68 - up to 5 bar DIN46319.

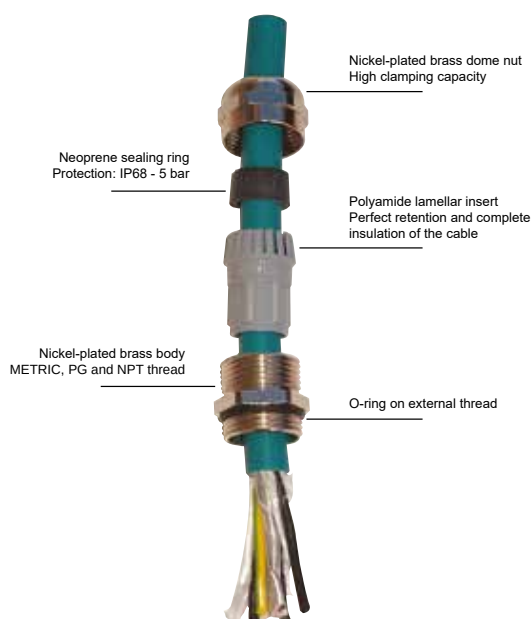
Cable gland reference	PG	Clamping capacity (mm)	Nut reference
DEL52007	7	3 ... 6.5	DEL52107
DEL52009	9	4 ... 8	DEL52109
DEL52011	11	5 ... 10	DEL52111
DEL52013	13	6 ... 12	DEL52113
DEL52016	16	10 ... 14	DEL52116
DEL52021	21	13 ... 18	DEL52121
DEL52029	29	18 ... 25	DEL52129
DEL52036	36	22 ... 32	DEL52136
DEL52042	42	30 ... 38	DEL52142
DEL52048	48	34 ... 44	DEL52148



“Perfect” nickel-plated brass cable glands

Protection rating: IP68 - up to 5 bar DIN46319.

Cable gland reference	Metric thread	Clamping capacity (mm)	Nut reference
DEL50612	M12 x 1.5	3 ... 6	DEL3110
DEL50617	M16 x 1.5	5 ... 10	DEL3111
DEL50620	M20 x 1.5	8 ... 13	DEL3112
DEL50625	M25 x 1.5	11 ... 17	DEL3113
DEL50632	M32 x 1.5	15 ... 21	DEL3114
DEL50640	M40 x 1.5	19 ... 28	DEL3115
DEL50650	M50 x 1.5	27 ... 35	DEL3116
DEL50663	M63 x 1.5	32 ... 42	DEL3117
DEL50663B	M63 x 1.5	38 ... 48	DEL3117



“Perfect” stainless steel cable glands

Protection rating: IP68 - 1.4305 stainless steel body

Operating temperature -20°C to +100°C.

Cable gland reference	Metric thread	Clamping capacity (mm)	Nut reference
DEL50612ES	M12 x 1.5	3 ... 6	DEL50212ES
DEL50616ES	M16 x 1.5	5 ... 9	DEL50216ES
DEL50620ES	M20 x 1.5	9 ... 13	DEL50220ES
DEL50625ES	M25 x 1.5	11 ... 16	DEL50225ES
DEL50632ES	M32 x 1.5	14 ... 21	DEL50232ES
DEL50640ES	M40 x 1.5	19 ... 27	DEL50240ES
DEL50650ES	M50 x 1.5	24 ... 35	DEL50250ES
DEL50663ES	M63 x 1.5	32 ... 42	DEL50263ES



CM
standardised



CM/AC



EMC



Marine



Multi-wire



Ex d

Cable ties with serrated inside and square head - T series, polyamide 6.6

Reference		Designation	Width (mm)	Length (mm)	Pkg
Black	Natural				
HLR11101910	HLR11101919	T18R	2.5	100	100
HLR11102370	HLR11102319	T18I	2.5	145	100
HLR11102110	HLR11102119	T18L	2.5	205	100
HLR11103011	HLR11103009	T30R	3.5	150	100
HLR11103410	HLR11103419	T30L	3.5	198	100
HLR11103500	HLR11103529	T30LL	3.5	290	100
HLR11105000	HLR11105013	T50R	4.6	200	100
HLR11105210	HLR11105219	T50I	4.6	300	100
HLR11105400	HLR11105409	T50L	4.6	390	100
HLR11112210	HLR11112219	T120I	7.6	300	100
HLR11112010	HLR11112019	T120R	7.6	387	100



Cable ties with serrated outside and flat head - LPH series, black polyamide 6.6

Reference	Designation	Width (mm)	Length (mm)	Pkg
HLR11200203	LPH175	9	175	100
HLR11200303	LPH275	9	265	100
HLR11200403	LPH350	9	355	100
HLR11200033	LPH500	9	500	100
HLR11200034	LPH750	9	750	100



Stainless steel cable ties with ball locking system - MBT series, SS304 stainless steel

Reference	Designation	Width (mm)	Length (mm)	Pkg
HLR11193088	MBT8SS	4.6	201	100
HLR11193148	MBT14SS	4.6	362	100
HLR11194088	MBT8HS	7.9	201	50
HLR11194148	MBT14HS	7.9	362	50
HLR11194208	MBT20HS	7.9	521	50
HLR11194278	MBT27HS	7.9	685	50
HLR11194338	MBT33HS	7.9	838	50



HLR15180110

Knock-in anchor and screw-fastening base - LOK series, PA6HIR

Reference	Designation	Width (mm)	Length (mm)	Height (mm)	Screw Ø (mm)	Max. tie width (mm)	Hole Ø (mm)	Contents
HLR15180110	LOK01 anchor	12	44	-	9.2	9	7 to 8	100 units
HLR15180210	LOK02 base	14	21	18	-	9	5.1	100 units



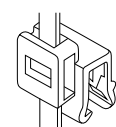
Flexible square base with super-strength adhesive - FMB series, PA66HS

Reference		Designation	Width (mm)	Length (mm)	Max. tie width (mm)	Contents
Black	White					
HLR15102219	HLR15102977	FlexTack	28	28	5.4	100 units

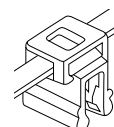


Cable tie and edge clip assembly for edges of sheet metal, with crimped metal insert - EC series

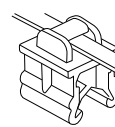
Reference	Designation	Width (mm)	Length (mm)	Pkg
HLR15040591	T50ROSEC5A	4.6	200	500
HLR15076099	T50ROSEC4A	4.6	200	500
HLR15604602	T50ROSEC19	4.6	200	500
HLR15600010	T50ROSEC21	4.6	200	500
HLR15600831	T50ROSEC21	4.6	200	100
HLR15600006	T50ROSEC23	4.6	200	500
HLR15600852	T50ROSEC23	4.6	200	100



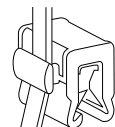
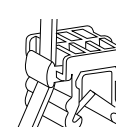
HLR15040591



HLR15076099



HLR15604602


HLR15600010
HLR15600831

HLR15600006
HLR15600852

Square base with adhesive - MB series, PA66

Reference	Designation	Width (mm)	Length (mm)	Height (mm)	Hole Ø (mm)	Max. cable tie width (mm)	Colour	Pkg
HLR15128349	MB3A	19	19	3.8	3.1	4.1	White	100
HLR15128320	MB3A	19	19	3.8	3.1	4.1	Black	100
HLR15128469	MB4A	28	28	4.7	4	5.4	White	100
HLR15128412	MB4A	28	28	4.7	4	5.4	Black	100



Manual tensioning tool for the installation of plastic cable ties

Reference	Designation	Min. cable tie width (mm)	Max. cable tie width (mm)	Max. cable tie thickness (mm)	Weight (kg)
HLR11010001	MK10-SB	-	9.5	2.5	0.33
HLR11077001	EVO7i	2	4.8	1.5	0.28
HLR11080002	EVO9	4.6	13	2.3	0.36



HLR11010001



HLR11070129



HLR11080002

Cutting tool for plastic cable ties

Reference	Designation	Max. cable tie width (mm)	Max. cable tie thickness (mm)	Weight (kg)
HLR11005005	EVO cut	7.8 mm	1.8 mm	0.14



HLR11005005

Manual tensioning tool for metal cable ties

Reference	Designation	Max. cable tie width (mm)	Max. cable tie thickness (mm)	Weight (kg)
HLR11095000	MK9SST	16	0.5	0.6



HLR11095000

Embossing machine for stainless steel - M-Boss Compact

Reference	Designation	Contents
HLR54420000	M-BOSS Compact	1
HLR54421000	M-BOSS Compact Organiser	1



M-BOSS PRINTER

Stainless steel markers for embossing - M-BOSS Compact markers

Reference	Designation	Max. cable tie width (mm)	Nbr of line(s)	Nbr. of characters per line	Total nbr of characters	Width (mm)	Length (mm)	Contents
HLR54480101	MBML10X45	4.6	1	8	8	10	45	1,000
HLR91240092	MBML10X90	4.6	1	23	23	10	90	500
HLR54480201	MBML20X45	4.6	3	8	24	20	45	1,000
HLR54480202	MBML20X90	4.6	3	23	69	20	90	500



M-BOSS MARKER

Detectable cable ties with serrated inside MCT series - Blue PA66MP

Reference	Designation	Width (mm)	Length (mm)	Pkg
HLR11101225	MCT18R	2.5	100	100
HLR11100829	MCT30R	3.5	150	100
HLR11100830	MCT50R	4.6	202	100
HLR11100831	MCT50L	4.7	380	100
HLR11101136	MCT120R	7.6	387	100



Detectable cable tie with serrated inside, can be reopened MCT, blue PA66MP

Reference	Designation	Width (mm)	Length (mm)	Pkg
HLR11100937	MCTRELK	4.6	250	100



Detectable RFID cable tie with serrated inside MCT HF RFID, blue PA66MP

Reference	Designation	Width (mm)	Length (mm)	Pkg
HLR11101676	MCTRFIDCHA	4.6	200	100



Detectable, floatable cable tie with serrated inside MCTPP series, blue PPMP

Reference	Designation	Width (mm)	Length (mm)	Pkg
HLR11101664	MCTPP18R	2.5	100	100
HLR11101665	MCTPP30R	3.5	150	100
HLR11101666	MCTPP50R	4.6	200	100
HLR11101667	MCTPP50L	4.6	390	100
HLR11101668	MCTPP120R	7.6	387	100



Thermal transfer cable markers - TIPTAG MC made of blue polyolefin loaded with detectable metal particles

Reference	Designation	Width	Length	Contents	Colour
HLR55626500	TTAGMC11BEX65S	11 mm	65 mm	190 units	Blue (BU)
HLR55626502	TTAGMC15BEX65S	15 mm	65 mm	190 units	Blue (BU)
HLR55626501	TTAGMC11BEX100S	11 mm	100 mm	120 units	Blue (BU)
HLR55626503	TTAGMC15BEX100S	15 mm	100 mm	120 units	Blue (BU)



Thermal transfer printer - TT431

Reference	Designation	Print head	Printing speed	Max. printing width	Max. marker height	Interfaces	Barcode	Dimensions (mm)	Weight
HLR55600400	TT431	300 dpi, flat head	up to 150 mm/s	105.7 mm	1,000 mm	USB 2.0, Ethernet 10/100 Base T, RS232	Standard and 2D	253 x 189 x 322	4 kg

Marker printing and creation software - TagPrint Pro 4.0

Reference	Designation	System requirements
HLR55600059	TagPrint Pro 4.0	TagPrint Pro Standalone/TagPrint Pro Client PC equipped with Microsoft Windows XP SP3, VISTA SP1 or higher, Windows 7, 8, 10 .NET 4 framework 512 MB RAM (XP SP3) 1.0 GB of RAM (Vista/Windows 7, 8, 10) 500 MB of free space on the hard drive.



PVC electrical tape, all usages - HelaTape Flex 15

Reference	Designation	Thickness (mm)	Width (mm)	Length (m)	Colour	Pkg
HLR71000105	HTAPE-FLEX15-15x10	0.15	15	10	White	10
HLR71000100	HTAPE-FLEX15-15x10	0.15	15	10	Blue	10
HLR71000108	HTAPE-FLEX15-15x10	0.15	15	10	Grey	10
HLR71000106	HTAPE-FLEX15-15x10	0.15	15	10	Yellow/Green	10
HLR71000102	HTAPE-FLEX15-15x10	0.15	15	10	Yellow	10
HLR71000107	HTAPE-FLEX15-15x10	0.15	15	10	Brown	10
HLR71000104	HTAPE-FLEX15-15x10	0.15	15	10	Black	10
HLR71000110	HTAPE-FLEX15-15x10	0.15	15	10	Orange	10
HLR71000101	HTAPE-FLEX15-15x10	0.15	15	10	Red	10
HLR71000146	HTAPE-FLEX15-15x10	0.15	15	10	Mix	10
HLR71000147	HTAPE-FLEX15-15x10	0.15	15	10	Transparent	10
HLR71000103	HTAPE-FLEX15-15x10	0.15	15	10	Green	10
HLR71000109	HTAPE-FLEX15-15x10	0.15	15	10	Purple	10



PVC electrical tape, low temperature - HelaTape Flex 1000+, black

Reference	Designation	Thickness (mm)	Width (mm)	Length (m)	Pkg
HLR71010600	HTAPE-FLEX1000+19X6	0.18	19	6	10
HLR71010601	HTAPE-FLEX1000+19X20	0.18	19	20	10
HLR71010602	HTAPE-FLEX1000+19X20	0.18	19	20	1
HLR71010610	HTAPE-FLEX1000+19X33	0.18	19	33	1
HLR71010611	HTAPE-FLEX1000+50X33	0.18	50	33	1



Connection terminals - HelaCon Plus Mini

Reference	Designation	Nbr. of inputs	Colour	Width (mm)	Height (mm)	Depth (mm)	Pkg
HLR14890036	HCPM-2	2	Yellow	10.8	7.7	16.5	150
HLR14890037	HCPM-3	3	Orange	15.1	7.7	16.5	100
HLR14890038	HCPM-4	4	Transparent	19.4	7.7	16.5	100
HLR14890039	HCPM-5	5	Blue	23.7	7.7	16.5	75
HLR14890040	HCPM-6	6	Purple	28	7.7	16.5	50
HLR14890041	HCPM-8	8	Black	36.6	7.7	16.5	50



Endoscopic camera - Cable Scout Cam

Reference	Designation	Cable length	Accessories
HLR89790060	Cable Scout Cam	10 m	Hook, splash-proof protection, magnet, 90° mirror



Cable routing tool - Cable Scout+

Reference	Designation	Rods included	Max. rod length after assembly	Accessories
HLR89790001	CS-SD deluxe kit	2 x 1 m flexible rods (white) 6 x 1 m rods of medium rigidity (red) 2 x 1 m very rigid rods (blue)	10 m	15 cm white flexi lead, split ring, gender changer, large hook, mini eye, domed bullet and flat bullet, LED torch, magnet



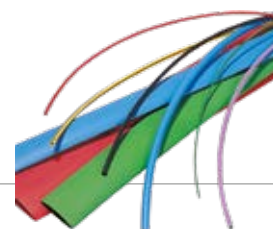
Thin-wall 2:1 heat-shrinkable sheath without adhesive in tubes or on reels

Shrinkage ratio: 2:1. Ø1.2 mm to 101.6 mm

Other sizes, packaging or colours available on request: white, brown, orange, purple, pink, yellow, green.

Operating temperatures: -55°C to 125°C (+135°C for yellow/green). Minimum shrinkage temperatures: +100°C (from +90°C for yellow/green). Longitudinal variation: +/- 5%. Fire rating: Self extinguishing (except for transparent) according to UL 224 VW-1 (reels) and according to ASTM D876 (yellow/green in tubes).

Ø Before shrinking					
					
mm	inch	Reference Black	Reference Transparent	Reference Yellow/green	Length of reel
1.2	3/64"	HLR30030120	-	-	10 m
1.6	1/16"	HLR30030160	-	-	10 m
2.4	3/32"	HLR30030240	HLR30030243	HLR30030245	10 m
3.2	1/8"	HLR30030320	HLR30030323	HLR30030327	10 m
4.8	3/16"	HLR30030480	HLR30030483	HLR30030487	10 m
6.4	1/4"	HLR30030640	HLR30030643	HLR30030647	5 m
9.5	3/8"	HLR30030950	HLR30030953	HLR30030957	5 m
12.7	1/2"	HLR30031270	HLR30031273	HLR30031277	5 m
19.1	3/4"	HLR30031900	HLR30031903	HLR30031907	5 m
25.4	1"	HLR30032540	HLR30032543	HLR30032547	5 m

**Thin-wall 2:1 heat-shrinkable sheath without adhesive in 1-metre strips**

												
Ø before shrinking	HLR30073xxx*										HLR31380xxx*	HLR3096xxxx*
mm	Black	Blue	Red	White	Yellow	Brown	Grey	Orange	Green	Purple	Transparent	Yellow/ Green
1.2	550	-	-	-	-	-	-	-	-	-	-	-
1.6	551	-	-	-	-	-	-	-	-	-	-	-
2.4	552	554	553	555	679	675	676	678	680	677	000	0119
3.2	556	558	557	559	685	681	682	684	686	683	001	0127
4.8	560	562	561	563	691	687	688	690	692	689	002	0138
6.4	564	566	565	567	697	693	694	696	698	695	003	0149
9.5	568	570	569	571	703	699	700	702	704	701	004	0158
12.7	572	574	573	575	709	705	706	708	710	707	005	0168
19.1	576	578	577	579	715	711	712	714	716	713	006	0179
25.4	580	582	581	583	721	717	718	720	722	719	007	0187
38.1	584	586	585	587	727	723	724	726	728	725	008	1134
50.8	588	590	589	591	733	729	730	732	734	731	009	1133
76.2	592	594	593	595	739	735	736	738	740	737	010	1135
101.6	596	598	597	599	745	741	742	744	746	743	011	1136

* Add the 3 or 4 last digits above to complete the code according to the desired size and colour

Available in rolls and small reels in the following colours: Black, transparent, blue, white, red, yellow/green

Shrinkage tools for heat-shrinkable sheaths

Reference	Designation
HLR39190010	CHG900 - Gas-powered hot-air gun
HLR39190101	P445 gas cartridge
HLR39100110	H6100 - Electric hot-air gun



Expandable sleeves - Helsyn V0

Designation	For wires Ø (mm)	Int. Ø (mm)	Wall thickness (WT)	Length (L)	Qty
THV0-12	1.25 - 2	1.25	0.5	20 mm	100
THV0-17	1.75 - 3.5	1.75	0.5	20 mm	100
THV0-24	2.4 - 4.5	2.4	0.6	20 mm	100
THV0-30	3 - 6	3	0.6	25 mm	100
THV0-50	5 - 9	5	0.7	25 mm	100
THV0-75	7.5 - 12	7.5	0.8	30 mm	100
THV0-100	10 - 15	10	0.9	35 mm	100
THV0-120	12 - 20	12	1.2	50 mm	100
THV0-140	14 - 23	14	1.3	50 mm	100
THV0-170	17 - 28	17	1.3	50 mm	100



Use the table below to find your reference easily:

HLR60007 + **xxx**

E.g. HLR60007011 for black THV0-12.

	THV0-12	THV0-17	THV0-24	THV0-30	THV0-50	THV0-75	THV0-100	THV0-120	THV0-140	THV0-170
Black	011	023	040	047	060	072	087	100	112	028
Red	008	019	044	055	068	080	094	106	117	033
Blue	003	013	042	049	062	074	089	102	114	030
Brown	002	012	041	048	061	073	088	101	113	029
Yellow/Green	005	015	043	051	064	076	090	103	115	027

Other colours available - yellow, white, grey, green, orange, light blue, purple, pink

Sleeving pliers for expandable sleeves - NA0/1

Reference	Designation	Min. Ø of strand	Max. Ø of strand	Max. Ø	Max. length of marker
HLR62110001	NA0/1	1.3	1.8	10.5	28



HLR62110001

Protection profiles - EdgeGuard, polyethylene (PE) THA sleeve with elastomer adhesive

Reference	Designation	Wall thickness (mm)	Width W (mm)	Width W2 (mm)	Height H (mm)	Height H2 (mm)	Colour	Contents
HLR25106100	THA-012	1.2	3.3	1.2	4.8	3.8	Natural	20
HLR25106101	THA-012B	1.2	3.3	1.2	4.8	3.8	Black	20
HLR25106102	THA-016	1.6	3.7	1.6	5.2	4.0	Natural	20
HLR25106103	THA-016-B	1.6	3.7	1.6	5.2	4.0	Black	20
HLR25106104	THA-024	2.3	4.4	2.3	5.2	4.0	Natural	20
HLR25106105	THA-024-B	2.3	4.4	2.3	5.2	4.0	Black	20
HLR25106106	THA-032	3.2	5.3	3.2	5.2	4.0	Natural	20
HLR25106107	THA-032B	3.2	5.3	3.2	5.2	4.0	Black	20



Pre-printed markers, accessories and installation tool - WIC family

Reference	Designation	Width (mm)	Height (mm)	Length (mm)	Cross-section (mm²)	Contents	Installation tool
-	WIC0	5	5.5	3	0.15 - 0.75	1,000	WICTOOL
-	WIC1	5	6.4	3	0.50 - 1.50	1,000	
-	WIC2	5.6	7.1	3	1.50 - 2.50	1,000	
-	WIC3	8	9.6	3	4 to 6	500	
HLR56106000	WICA-ACT-BK	7	8.9	26.7	6 to 95	100	-
HLR56106001	WICA-AC10-25	13.5	19.4	25.8	10 to 25	100	-
HLR56100001	WICTOOL	-	-	-	-	5	-



wic



WICA-AC10-25



WICA-ACT-BK



WICA-ACT-BK

Pre-insulated lugs

Compliant with standard IEC 60352-2. Halogen-free.
Box of 100.

Red - Cross-section 0.34 to 1.5 mm²

Designation	Item code	Reference
Ring terminal, 4 mm hole	C100NA1-4	MEC7210053
Ring terminal, 5 mm hole	C100NA1-5	MEC7210054
Ring terminal, 6 mm hole	C100NA2-6	MEC7210073
Ring terminal, 8 mm hole	C100NA2-8	MEC7210080
F Faston 2.8x0.3	C100SQA2.8-5	MEC7251015
F Faston 4.7x0.5	C100SQA4.7-5	MEC7251095
F Faston 5x0.5	C100SQA5N	MEC7251337
F Faston 6.35x0.8	C100SQA6.35	MEC7251333
Double Faston 6.35x0.8	C100SQVA6.35	MEC7251254
F insulated Faston 6.35x0.8	C100SQAP6.35	MEC7252068
Male Faston 6.35x0.8	C100SQMA6.35	MEC7250013
Red splice sleeve 1.5 ²	C100NPMJ1	MEC7276013



Blue - Cross-section 1 to 2.5 mm²

Designation	Item code	Reference
Ring terminal, 4 mm hole	C100NB0-4	MEC7210118
Ring terminal, 5 mm hole	C100NB0-5	MEC7210119
Flat ring terminal, 4 mm hole	C100NB1-4	MEC7210103
Flat ring terminal, 5 mm hole	C100NB1-5	MEC7210113
Flat ring terminal, 6 mm hole	C100NB1-6	MEC7210125
Flat ring terminal, 5 mm hole	C100NB2-5	MEC7210143
Flat ring terminal, 6 mm hole	C100NB2-6	MEC7210153
Flat ring terminal, 8 mm hole	C100NB2-8	MEC7210168
F Faston 5x0.8	C100SQB5N	MEC7251338
F Faston 6.35x0.8	C100SQB6.35	MEC7251353
F insulated Faston 6.35x0.8	C100SQBP6, 35TH2	MEC7252066
M Faston 6.35x0.8	C100SQMB6.35	MEC7250023
Double M Faston 6.35x0.8	C100SQVB6.35	MEC7251268
Blue splice sleeve 2.5 ²	C100NPMJ2	MEC7276027



Yellow - Cross-section 2.6 to 6 mm²

Designation	Item code	Reference
Ring terminal, 4 mm hole	C100NC1-4	MEC7210179
Ring terminal, 5 mm hole	C100NC1-5	MEC7210196
Ring terminal, 6 mm hole	C100NC1-6	MEC7210203
Ring terminal, 6 mm hole	C100NC2-6	MEC7210209
Ring terminal, 8 mm hole	C100NC2-8	MEC7210239
Ring terminal, 10 mm hole	C100NC2-10	MEC7210230
F Faston 6.35x0.8	C100SQC6.35	MEC7251382
F insulated Faston 6.35	C100SQCP6.35	MEC7252069
Yellow splice sleeve 6 ²	C100NPMJ3	MEC7276018



Tools

Designation	Reference
Manual crimping tool for pre-insulated terminals and clips from 0.34 mm ² to 6 mm ²	MEC7500205

Tubular copper lugs

Electrolytic tin-plating - Bell entry from 10 mm² - Compliant with standard NFC 20-130.



4-5C

Cable cross-section mm ²	Reference	Design.	Terminal Ø mm
4	MEC7406215	4-5C	5
	MEC7406225	4-6C	6
6	MEC7406265	6-5C	5
	MEC7406275	6-6C	6
	MEC7406285	6-8C	8
10	MEC7406316	10-5CT	5
	MEC7406326	10-6CT	6
	MEC7406336	10-8CT	8
	MEC7406346	10-10CT	10
16	MEC7406386	16-5CT	5
	MEC7406396	16-6CT	6
	MEC7406406	16-8CT	8
	MEC7406416	16-10CT	10
	MEC7406426	16-12CT	12
25	MEC7406466	25-6CT	6
	MEC7406476	25-8CT	8
	MEC7406486	25-10CT	10
	MEC7406496	25-12CT	12
35	MEC7406536	35-6CT	6
	MEC7406546	35-8CT	8
	MEC7406556	35-10CT	10
50	MEC7406566	35-12CT	12
	MEC7406606	50-6CT	6
	MEC7406616	50-8CT	8
	MEC7406626	50-10CT	10
70	MEC7406636	50-12CT	12
	MEC7406676	70-8CT	8
	MEC7406686	70-10CT	10
	MEC7406696	70-12CT	12
95	MEC7406756	95-8CT	8
	MEC7406766	95-10CT	10
	MEC7406776	95-12CT	12
	MEC7406786	95-14CT	14
120	MEC7406846	120-10CT	10
	MEC7406856	120-12CT	12
	MEC7406866	120-14CT	14
150	MEC7406946	150-12CT	12
	MEC7406956	150-14CT	14
185	MEC7407016	185-12CT	12
	MEC7407026	185-14CT	14
240	MEC7407096	240-12CT	12
	MEC7407106	240-14CT	14
300	MEC7407166	300-12CT	12
	MEC7407176	300-14CT	14

90° tubular copper lugs

Electrolytic tin-plating - Bell entry from 10 mm² - Compliant with NFC 20-130.

Cable cross-section mm ²	Reference	Designation	Terminal Ø mm
10	MEC7406328	10-6CT90E	6
16	MEC7406398	16-6CT90E	6
	MEC7406408	16-8CT90E	8
25	MEC7406468	25-6CT90E	6
	MEC7406478	25-8CT90E	8
35	MEC7406539	35-6CT90E	6
	MEC7406549	35-8CT90E	8
50	MEC7406618	50-8CT90E	8
	MEC7406629	50-10CT90E	10
70	MEC7406678	70-8CT90E	8
	MEC7406688	70-10CT90E	10
95	MEC7406770	95-10CT90E	10



35-8CTE



Industrial aluminium-copper lugs for crimping

Compliant with standard NFC 63-061 - Class B - Implemented by hexagonal crimping - Friction-welded lugs.



Alu. cable cross-section mm²	Pack of 3		Dimensions (mm)						Die types
	Reference	Desig.	ØA	ØE	ØC	ØB	L	D	
35	MEC7585011	ICAU 35	8	16	16.5	8.4	56	4.5	..E 140
50	MEC7585021	ICAU 50	9	16	16.5	8.4	56	4.5	..E 140
70	MEC7585031	ICAU 70	11	20	20	10.5	65.5	5	..E 173
95	MEC7585041	ICAU 95	12.5	20	20	10.5	65.5	5	..E 173
120	MEC7585051	ICAU 120	13.7	20	20	10.5	65.5	5	..E 173
150	MEC7585062	ICAU 150	15.5	27	30	12.8	84	6	..E 235
185	MEC7585072	ICAU 185	17	27	30	12.8	84	6	..E 235
240	MEC7585082	ICAU 240	19.5	27	30	12.8	84	6	..E 235
300	MEC7585092	ICAU 300	23.3	32	36	14.6	98	7	..X 260

Aluminium-copper lugs for indent crimping

Implemented by deep indent crimping. Compliant with standard NFC 30-090-1.

Alu. cable cross-section mm ²	Reference	Designation	Terminal Ø mm
50	MEC9100103	C1AU50	12.8
70	MEC9100104	C1AU70	12.8
95	MEC9100105	C1AU95	12.8
120	MEC9100106	C2AU120	12.8
150	MEC9100107	C2AU150	12.8
185	MEC9100108	C4AU185	12.8
240	MEC9100109	C4AU240	12.8



C2AU150

Electro-hydraulic crimping tool 50 kN

With USB port + 1 case + 1 charger + 1 battery



Dies to be ordered separately

Reference	Designation
MEC7512176	EID51KCM

Electro-hydraulic crimping tool 120 kN

With USB port + 1 case + 2 batteries + charger



Dies to be ordered separately

Reference	Designation
MEC7519428	ESU137K1BLCM

Electromechanical wire cutter

With 1 case + 1 charger + 2 batteries



Reference	Designation
MEC7512184	EK50PK1CM

Compliant with NFC 63023

Pre-insulated single wire-end sleeves

Cross-section/L (mm)	Colour	Code	Reference
0.5/8	White	CE005	MEC7170051
0.75/8	Blue	CE007	MEC7170071
1/8	Red	CE010	MEC7170101
1.5/8	Black	CE015	MEC7170151
2.5/8	Grey	CE025	MEC7170251
4/10	Orange	CA042	MEC7170421
6/12	Green	CA062	MEC7170621
10/12	Brown	CA102	MEC7171021
16/12	Ivory	CA162	MEC7171621
25/16	Black	CA253	MEC7172531
35/16	Red	CA352	MEC7172541
50/20	Blue	CA502	MEC7172561

Other colours available



Pre-insulated twin wire-end sleeves

Cross-section/L (mm)	Colour	Code	Reference
2x0.5/8	White	TE 0508	MEC7173491
2x0.75/8	Blue	TE 7508	MEC7173501
2x1.0/8	Red	TE 1008	MEC7173521
2x1.5/8	Black	TE 1508	MEC7173541
2x2.5/10	Grey	TE 2510	MEC7173561
2x4/12	Orange	TE 4012	MEC7173581
2x6/14	Green	TE 6014	MEC7173591
2x10/14	Brown	TE 10014	MEC7173601
2x16/14	Ivory	TE 16014	MEC7173611



Pre-insulated wire-end sleeve reels

Cross-section/L (mm)	Colour	Code	Reference
0.5/8	White	LCE005	MEC7173701
0.75/8	Blue	LCE007	MEC7173711
1/8	Red	LCE010	MEC7173721
1.5/8	Black	LCE015	MEC7173731
2.5/8	Grey	LCE025	MEC7173741



PZL025 manual crimping tool

Designation	Reference
Cutting, stripping and crimping tool 0.5 to 2.5 mm²	MEC7500074



Contact us for other lengths and colours.

Electro-hydraulic crimping tools

Reference	Manufacturer ref.	Designation
MEC7512176	EID51KCM*	Electro-hydraulic crimping tool 50 kN + case + 1 battery + charger** For crimping terminal lugs - copper sleeves NFC20-130 4 to 150 mm ² and alu-copper sleeves ICAU type 35 to 120 mm ² - C6 to C35 connectors
MEC7519426	ESDC60K1BLCM*	Electro-hydraulic crimping tool 60 kN with USB port + case + 2 batteries + charger. For crimping terminal lugs - copper sleeves NFC20-130 6 to 300 mm ² and alu-copper sleeves ICAU type 35 to 300 mm ² - C6 to C35 connectors
MEC7519428	ESU137K1BLCM*	Electro-hydraulic crimping tool 120 kN with USB port + case + 2 batteries + charger For crimping terminal lugs - copper sleeves NFC20-130 6 to 400 mm ² and alu-copper sleeves ICAU type 35 to 300 mm ² - alu-copper sleeves for indent crimping 16 to 240 mm ² - C6 to C185-95 connectors

* Dies: Contact us.

** Extra battery for EID51KCM = MEC7512154. -BL1815Li-ion 18 V - 1.5 ah battery.



MEC7519426



MEC7519428

Electro-mechanical battery-operated wire cutters

Reference	Manufacturer ref.	Designation
MEC7519734	ESK55K1BLCP	1 Electromechanical wire cutter + 2 Li-on 14.4 V batteries + 1 charger + 1 case



MEC7519734

Manual hydraulic crimping tool

Reference	Manufacturer ref.	Designation
MEC7500650	HVD35*	Hydraulic crimping tool for crimping copper lugs and sleeves from 4 to 150 mm ² standard NF C 20-130. Delivered in a case
MEC7512805	HVD51*	Hydraulic crimping tool for crimping terminal lugs - copper sleeves NFC20-130 4 to 150 mm ² and alu-copper sleeves ICAU type 35 to 120 mm ² - C6 to C35 connectors
MEC7512806	CPHVD51	Case for HVD51
MEC7512142	HDC61CP	Manual hydraulic tool 60 kN. Delivered in a case. For crimping terminal lugs - copper sleeves NFC20-130 6 to 300 mm ² - alu-copper sleeves ICAU type 35 to 300 mm ² - C6 to C35 connectors

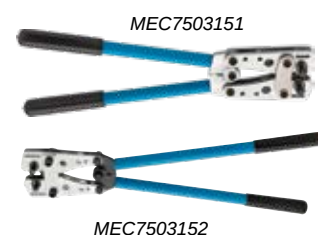
* Dies: Contact us



Manual mechanical tools

Reference	Manufacturer ref.	Designation
MEC7503151	TN50HX	Crimping tool for copper terminal lugs and sleeves cross-section 6 to 50 mm ² standard NF C 20-130
MEC7503152	TN120HX	Crimping tool for copper terminal lugs and sleeves cross-section 6 to 120 mm ² standard NF C 20-130
MEC7504031	MRD100*	Manual mechanical crimping tool 100 kN for terminal lugs and sleeves "CT 6 to 300 mm ² and ICAU 35 to 300 mm ² " series C16 to C50 connectors

* Dies: Contact us



Tool for pre-insulated lugs

Reference	Manufacturer ref.	Designation
MEC7500205	CT0346	Manual tool for pre-insulated terminal lugs and sleeves, cross-section 0.34 to 6 mm ²



Stripping and crimping tool

Reference	Manufacturer ref.	Designation
MEC7500074	PZL025	Stripping and crimping tool for "LCE" series wire-end sleeves 0.5 to 2.5 mm ²



Crimping tools for wire-end sleeves

Reference	Manufacturer ref.	Designation
MEC7507115	KEB16L	Tool for wire-end sleeves 0.08 to 16 mm ²
MEC7507114	KEB16B	Tool for wire-end sleeves 0.08 to 16 mm ²



MEC7507115



MEC7507114

PLIO-V markers

In semi-cut pull-off reels. Also available loose CODE SES0306142500xx

Marker	Type cable Ø mm	V-27 Reel of 500 Cross-section: 0.75 - 1 mm ² For cables Ø1.6 - 2.5	V-37 Reel of 500 Cross-section: 1 - 1.5 - 2.5 mm ² For cables Ø2.3 - 3.4	V-40 Reel of 500 Cross-section: 1.5 - 2.5 - 4 mm ² For cables Ø2.8 - 4.2
A	Pink background, black printing	SES03600105015A	SES03600106015A	SES03600107015A
B		SES03600105015B	SES03600106015B	SES03600107015B
C		SES03600105015C	SES03600106015C	SES03600107015C
D		SES03600105015D	SES03600106015D	SES03600107015D
E		SES03600105015E	SES03600106015E	SES03600107015E
F		SES03600105015F	SES03600106015F	SES03600107015F
G		SES03600105015G	SES03600106015G	SES03600107015G
H		SES03600105015H	SES03600106015H	SES03600107015H
I		SES03600105015I	SES03600106015I	SES03600107015I
J		SES03600105015J	SES03600106015J	SES03600107015J
K		SES03600105015K	SES03600106015K	SES03600107015K
L		SES03600105015L	SES03600106015L	SES03600107015L
M		SES03600105015M	SES03600106015M	SES03600107015M
N		SES03600105015N	SES03600106015N	SES03600107015N
O		SES03600105015O	SES03600106015O	SES03600107015O
P		SES03600105015P	SES03600106015P	SES03600107015P
Q		SES03600105015Q	SES03600106015Q	SES03600107015Q
R		SES03600105015R	SES03600106015R	SES03600107015R
S		SES03600105015S	SES03600106015S	SES03600107015S
T		SES03600105015T	SES03600106015T	SES03600107015T
U		SES03600105015U	SES03600106015U	SES03600107015U
V		SES03600105015V	SES03600106015V	SES03600107015V
W		SES03600105015W	SES03600106015W	SES03600107015W
X		SES03600105015X	SES03600106015X	SES03600107015X
Y		SES03600105015Y	SES03600106015Y	SES03600107015Y
Z		SES03600105015Z	SES03600106015Z	SES03600107015Z
~		SES03600105015ALT	SES03600106015ALT	SES03600107015ALT
+		SES03600105015+	SES03600106015+	SES03600107015+
-		SES03600105015-	SES03600106015-	SES03600107015-
0	International colour code	SES036002050100	SES036002070100	SES036002080100
1		SES036002050061	SES036002070061	SES036002080061
2		SES036002050072	SES036002070072	SES036002080072
3		SES036002050053	SES036002070053	SES036002080053
4		SES036002050044	SES036002070044	SES036002080044
5		SES036002050035	SES036002070035	SES036002080035
6		SES036002050026	SES036002070026	SES036002080026
7		SES036002050087	SES036002070087	SES036002080087
8		SES036002050138	SES036002070138	SES036002080138
9		SES036002050019	SES036002070019	SES036002080019
+		SES03600105007+	SES03600106007+	SES03600107007+
-		SES03600105002-	SES03600106002-	SES03600107002-



Other symbols or types: Contact us.

	Type A0-C	Type A1-C	Type A1bis-C	Type A2-C	Type A3-C
	SES02010001001	SES02010002001	SES02010003001	SES02010004001	SES02010005001
	SES02010001002	SES02010002002	SES02010003002	SES02010004002	SES02010005002
	SES02010001003	SES02010002003	SES02010003003	SES02010004003	SES02010005003
	SES02010001004	SES02010002004	SES02010003004	SES02010004004	SES02010005004
	SES02010001005	SES02010002005	SES02010003005	SES02010004005	SES02010005005
	SES02010001006	SES02010002006	SES02010003006	SES02010004006	SES02010005006
	SES02010001007	SES02010002007	SES02010003007	SES02010004007	SES02010005007
	SES02010001008	SES02010002008	SES02010003008	SES02010004008	SES02010005008
	SES02010001013	SES02010002013	SES02010003013	SES02010004013	SES02010005013
	SES02010001015	SES02010002015	SES02010003015	SES02010004015	SES02010005015
	SES02010001020	SES02010002020	SES02010003020	SES02010004020	SES02010005020

	Type A0-C	Type A1-C	Type A1bis-C	Type A2-C	Type A3-C
	SES02010001010	SES02010002010	SES02010003010	SES02010004010	SES02010005010

	Type A0-C	Type A1-C	Type A1bis-C	Type A2-C	Type A3-C
	SES02010001060	SES02010002060	SES02010003060	SES02010004060	SES02010005060



SES sleeving tools, KP series

SES-KP1 tool	SES-KP2 tool	SES-KP3 tool
SES04100133000	SES04100134000	SES04100135000



Hand-sleeving tools

For HELAVIA sleeves.

Reference	Code	For sleeve
SES04100133000	KP1	A0 to A1bis
SES04100136000	KY1	A0 to A1bis
SES04100134000	KP2	A1 to A3
SES04100137000	KY2	A1 to A3
SES04100135000	KP3	A2 to A5
SES04100138000	KY3	A2 to A5
SES04100145000	KP4	A5 to A10
SES04100139000	KY4	A5 to A10



2-pole 40/80/125 A

Reference	Designation	W	H	D	Fastening holes centre distance (mm)	I in A	Nbr outputs
TEKRPB0990	RPB 40-08	66	46	51	45	40	08
TEKRPB0995	RPB 80-07	66	46	51	45	80	07
TEKRPB1000	RPB 125-06	64	45	50	45	100	06
TEKRPB1005	RPB 125-14	132	45	50	110	125	14



RPB

4-pole 100/125 A

Reference	Designation	W	H	D	Fastening holes centre distance (mm)	I in A	Nbr outputs
TEKRPQ0980	RPQ 40-08	66	84	50	45	40	08
TEKRPQ0985	RPQ 40-14	100	84	50	80	40	14
TEKRPQ0990	RPQ 80-07	66	84	50	45	80	07
TEKRPQ0995	RPQ 80-12	100	84	50	80	80	12
TEKRPQ1000	RPQ 125-06	66	84	50	45	125	06
TEKRPQ1005	RPQ 125-10	100	84	50	80	125	10
TEKRPQ1010	RPQ 125-14	132	84	50	112	125	14
TEKRPQ1025	RPQ C-125	98	75	49	55	125	*



TEKRPQ1000



TEKRPQ1025

* TEKRPQ1025: Compact 125 A 4-pole distribution box
7 outputs per phase, 10 outputs for neutral. Easy-to-wire, IP20

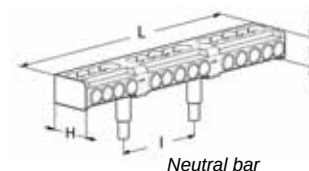
4-pole 160 A

Reference	Designation	W	H	D	I in A	Nbr outputs
TEKRPQ1016	RPQ 160-11-UD	177	56	105	160	11
TEKRPQ1015	RPQ 160-11	170	90	70	160	11
TEKRPQ1017	RPQ 160-11 M	160	90	50	160	11
TEKRPQ1018	RPQ 160-11SI	154	95	67	160	11
TEKRPQ2017*	RPN 160-14	161	27	17	160	*

* Neutral bar



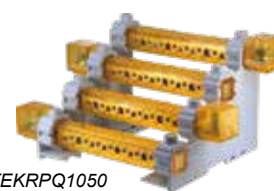
TEKRPQ1018



Neutral bar

400 A distribution box

Reference	Designation	W	H	D	Weight (kg)
TEKRPQ1050	RPQ 400 -14	194 (264 with wire-end sleeves)	141	171	1.9



TEKRPQ1050

1-pole 80 to 400 A

Reference	Designation	I in (A)	Weight (kg)	A (mm)	B (mm)	C (mm)	Nbr outputs
TEKRPU2995	RPU 80-6 S	80	71	66	30	46	6
TEKRPU3000	RPU 125-8 S	125	162	75	40	48	8
TEKRPU3005	RPU 160-8 S	160	166	75	40	48	8
TEKRPU3010	RPU 250-11 S	250	331	96	47	50	11
TEKRPU3015	RPU 400-11 S	400	358	96	47	50	11



TEKRPQxxx

Power terminal blocks from 125 to 400 A

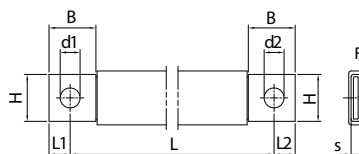
Reference	Designation	Weight (kg)	A (mm)	B (mm)	C (mm)	I in A
TEKPTB6015	PTB 125	0.110	84	24	54	125
TEKPTB6020	PTB 160	0.115	84	24	54	160
TEKPTB6025	PTB 250	0.195	111	27	56	250
TEKPTB6030	PTB 400	0.270	111	32	60	400



TEKPTB60xx

Insulated copper braided shunts

Ampacity chart (A) based on the current of the switch or on the temperature increase ΔT according to standard IEC 61439-1. Reference ambient temperature 40°C. Available in the following lengths: 330, 430, 530, 630, 730, 830, 930, 1030 mm



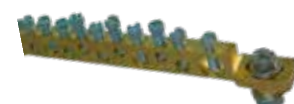
UL
File No. E300607



References	Designation	Pkg	Cross-sect. (mm²)	Use with switch of (A)	Dimensions (mm)								Rated current In (A) Temp. increase T		
					L	B	H	L1	L2	d1	d2	s	45°C	35°C	25°C
TEKJLK1000	JLK 25-230	10	25	125	230	20	20	7.5	7.5	8.5	10.5	4.3	185	175	145
TEKJLK1005	JLK 25-330	10	25		330	20	20	7.5	7.5	8.5	10.5	4.3			
TEKJLK1010	JLK 25-430	10	25		430	20	20	7.5	7.5	8.5	10.5	4.3			
TEKJLK1020	JLK 25-630	10	25		630	20	20	7.5	7.5	8.5	10.5	4.3			
TEKJLK1025	JLK 35-230	10	35	160	230	20	20	9	9	8.5	10.5	4.9	225	205	170
TEKJLK1030	JLK 35-330	10	35		330	20	20	9	9	8.5	10.5	4.9			
TEKJLK1045	JLK 35-630	10	35		630	20	20	9	9	8.5	10.5	4.9			
TEKJLK1050	JLK 50-230	10	50	250	230	20	20	9	9	8.5	10.5	5	280	250	220
TEKJLK1055	JLK 50-330	10	50		330	20	20	9	9	8.5	10.5	5			
TEKJLK1060	JLK 50-430	10	50		430	20	20	9	9	8.5	10.5	5			
TEKJLK1070	JLK 50-630	10	50		630	20	20	9	9	8.5	10.5	5			
TEKJLK1072	JLK 50-830	10	50		830	20	20	9	9	8.5	10.5	5			
TEKJLK1074	JLK 50-1030	10	50		1030	20	20	9	9	8.5	10.5	5			
TEKJLK1075	JLK 120-330	2	120	400	330	30	30	11	15	10.5	10.5	7.5	440	400	335
TEKJLK1080	JLK 120-430	2	120		430	30	30	11	15	10.5	10.5	7.5			
TEKJLK1090	JLK 120-630	2	120		630	30	30	11	15	10.5	10.5	7.5			
TEKJLK1096	JLK 120-830	2	120		830	30	30	11	15	10.5	10.5	7.5			
TEKJLK1098	JLK 120-1030	2	120		1030	30	30	11	15	10.5	10.5	7.5			
TEKJLK1100	JLK 240-330	2	240	630	330	35	32	16	16	12.5	10.5	12.5	730	680	565
TEKJLK1105	JLK 240-430	2	240		430	35	32	16	16	12.5	10.5	12.5			
TEKJLK1115	JLK 240-630	2	240		630	35	32	16	16	12.5	10.5	12.5			
TEKJLK1125	JLK 240-830	2	240		830	35	32	16	16	12.5	10.5	12.5			
TEKJLK1135	JLK 240-1030	2	240		1030	35	32	16	16	12.5	10.5	12.5			

Threaded copper bars

Reference	Designation	Pkg	L	S	P	M ø
TEKBRF0990	BRF 12x2x1000	10	12	2	18	M5
TEKBRF1000	BRF 12x4x1000	10	12	4	18	M5
TEKBRF1005	BRF 12x5x1000	10	12	5	18	M5
TEKBRF1010	BRF 15x5x1000	4	15	5	25	M6
TEKBRF1015	BRF 20x5x1000	4	20	5	25	M6
TEKBRF1016	BRF 25x4x1000	4	25	4	25	M6
TEKBRF1017	BRF 25x5x1000	4	25	5	25	M6
TEKBRF1020	BRF 32x5x1000	4	32	5	25	M6
TEKBRF1025	BRF 12x4x2000	10	12	4	18	M5
TEKBRF1030	BRF 15x5x2000	4	15	5	25	M6
TEKBRF1035	BRF 20x5x2000	4	20	5	25	M6
TEKBRF1040	BRF 30x5x2000	4	30	5	25	M6
TEKBRF1042	BRF 32x5x2000	4	32	5	25	M6
TEKBRF1041	BRF 32x5x2000 W	4	32	5	18	M6
TEKBRF1045	BRF 30x10x1000	4	30	10	25	M8



Earthing terminals

Reference	Code	Pkg	Weight (kg)	L (mm)	A (mm)	B (mm)	Ø holes (mm)	Nbr holes	Stripped wire cross-sect. (mm²)	Wire cross-sect. with wire-end sleeve	Tightening torque (Nm)
TEKMRS5002	MRS 13-6-41	1	0.350	462	13	6	9.1	1	16 to 35	10 to 35	2
							7.0	7	4 to 16	2.5 to 16	2
							5.3	19	2.5 to 6	1.5 to 6	1.5
							4.5	14	1.5 to 4	0.75 to 4	1.5
TEKMRS5005	MRS 13-6-56	1	0.330	462	13	6	9.1	1	16 to 35	10 to 35	2
							7.0	1	4 to 16	2.5 to 16	2
							4.5	54	1.5 to 4	0.75 to 4	1.5

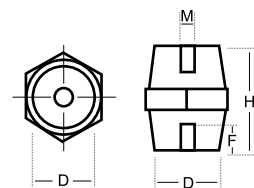
DIN rails

Sendzimir galvanised steel, length 2 metres.

References	Designation
Symmetrical solid DIN rails	
TEKDIN1055	DIN NF35H7Z
TEKDIN1060	DIN NF35H15Z
Symmetrical perforated DIN rails	
TEKDIN1065	DIN F35H7Z
TEKDIN1070	DIN F35H15Z
Asymmetrical solid DIN rails	
TEKDIN1075	DIN ANFZ
Asymmetrical perforated DIN rails	
TEKDIN1080	DIN AFZ



DIN



Low-voltage insulators

Thermosetting polyester resin component reinforced with 20% fibreglass.

Red - Self-extinguishing. Also available in UL version

Finished product: Rated voltage: 1000 VAC / 1500 VDC. Operating T°: -40...+130°C

References	Designation	Pkg	Weight (kg)	H (mm)	Ch (mm)	D (mm)	E (mm)	M	F (mm)	(Nm)	T.S. (daN)	C.S. (daN)	F.S. (daN)
TEKCPH2000	CPH 16M4	50	0.007	16	15	12	4	M4	5	3	150	1500	100
TEKCPH2010	CPH 20M6	25	0.012	20	19	16	5	M6	6	8	240	2000	240
TEKCPH2020	CPH 25M6	20	0.022	25	24	20	6	M6	9	10	340	2900	220
TEKCPH2025	CPH 30M6	10	0.064	30	30	25	7	M6	9	10	580	5900	460
TEKCPH2030	CPH 30M8	10	0.062	30	30	25	7	M8	9	25	580	5900	390
TEKCPH2035	CPH 35M6	10	0.083	35	32	28	10	M6	9	10	710	9000	400
TEKCPH2040	CPH 35M8	10	0.081	35	32	28	10	M8	10	25	710	9000	510
TEKCPH2045	CPH 35M10	10	0.077	35	32	28	10	M10	10	50	710	9000	480
TEKCPH2050	CPH 40M6	10	0.126	40	41	34	12	M6	10	10	900	12000	500
TEKCPH2055	CPH 40M8	10	0.127	40	41	34	12	M8	10	25	900	12000	500
TEKCPH2070	CPH 45M8	10	0.166	45	46	40	15	M8	15	25	900	14000	650

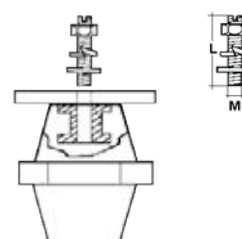


CPH

Threaded studs for insulators

Galvanised steel class 8.8. Complete with nut, flat washer and spring washer

References	Designation	M	L	
TEKISO3000	ISO PM5 x 20	M5	20	25
TEKISO3005	ISO PM6 x 30	M6	30	25
TEKISO3010	ISO PM8 x 30	M8	30	25
TEKISO3015	ISO PM8 x 35	M8	35	25
TEKISO3020	ISO PM10 x 40	M10	40	25



Prefabricated earth straps

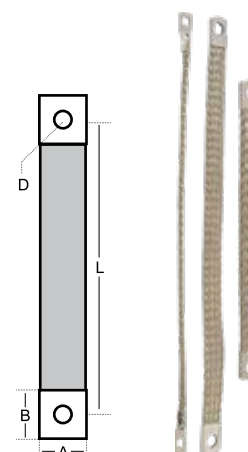
Tinned copper CU-ETP UNI 5649 - Standard wire: 0.20 mm (0.10 mm for the 6 mm² cross-section).

Operating temperature: 105°C - Pressed copper strip ferrules.

References	Designation	Current (A)	Cross-section (mm²)	S (mm)	L (mm)	A (mm)	B (mm)	D (mm)
TEKTMS1000	TMS 6-150-6	55	6	2.3	150	12	12	6.5
TEKTMS1005	TMS 6-200-6	55	6	2.3	200	12	12	6.5
TEKTMS1010	TMS 10-150-8	85	10	2.8	150	17	22	8.5
TEKTMS1020	TMS 10-250-8	85	10	2.8	250	17	22	8.5
TEKTMS1035	TMS 16-150-8	120	16	3.1	150	17	22	8.5
TEKTMS1040	TMS 16-200-8	120	16	3.1	200	17	22	8.5
TEKTMS1045	TMS 16-250-8	120	16	3.1	250	17	22	8.5
TEKTMS1050	TMS 16-300-8	120	16	3.1	300	17	22	8.5
TEKTMS1055	TMS 25-150-10	150	25	3.5	150	25	22	10.5
TEKTMS1070	TMS 25-300-10	150	25	3.5	300	25	22	10.5
TEKTMS1075	TMS 35-150-10	195	35	3.5	150	22	22	10.5
TEKTMS1090	TMS 35-300-10	195	35	3.5	300	22	22	10.5
TEKTMS1100	TMS 50-150-10	250	50	4.8	150	25	25	10.5
TEKTMS1110	TMS 50-250-10	250	50	4.8	250	25	25	10.5



TMS



Length 2 metres

Current chart (A) based on a temperature increase T according to standard UEC 61439-1

Reference ambient temperature 40°C

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L	Reference	Designation	Cross-section (mm²)	Idc (A)	Temperature increase ΔT				
					65°C	50°C	40°C	30°C	20°C
					Rated current In (A)				
20	TEKCFX1055	CFX 2X20X1	40	3.5	319	280	250	217	177
	TEKCFX1060	CFX 3X20X1	60	5.2	399	350	313	271	221
	TEKCFX1070	CFX 5X20X1	100	8.7	490	430	385	333	272
24	TEKCFX1085	CFX 2X24X1	48	4.2	399	350	313	271	221
	TEKCFX1090	CFX 3X24X1	72	6.3	456	400	358	310	253
	TEKCFX1095	CFX 4X24X1	96	8.3	536	470	420	364	297
	TEKCFX1100	CFX 5X24X1	120	10.4	581	510	456	395	323
	TEKCFX1105	CFX 6X24X1	144	12.5	650	570	510	442	360
32	TEKCFX1120	CFX 2X32X1	64	5.6	467	410	367	318	259
	TEKCFX1125	CFX 3X32X1	96	8.3	559	490	438	380	310
	TEKCFX1135	CFX 5X32X1	160	13.9	741	650	581	503	411
	TEKCFX1140	CFX 6X32X1	192	16.7	821	720	644	558	455
	TEKCFX1145	CFX 8X32X1	256	22.3	992	870	778	674	550
50	TEKCFX1200	CFX 5X50X1	250	21.7	1055	925	827	717	585
	TEKCFX1205	CFX 6X50X1	300	22.1	1186	1040	930	806	658
	TEKCFX1210	CFX 8X50X1	400	28.1	1357	1190	1064	922	753
	TEKCFX1215	CFX 10X50X1	500	35.1	1573	1380	1234	1069	873
80	TEKCFX1275	CFX 10X80X1	800	56.2	2028	1779	1591	1378	1125
100	TEKCFX1295	CFX 8X100X1	800	56.2	2172	1905	1704	1476	1205
	TEKCFX1300	CFX 10X100X1	1000	70.3	2394	2100	1878	1627	1328

Technical characteristics

Laminated conductor

Electrolytic copper:

Cu-ETP - EN 13599

Thickness of strip:

0.5 - 0.8-1 mm

Insulation

PVC UL 94V0 self-extinguishing, black with white stripe

Thickness: 2 mm ± 0,2

Max. elongation: 365%

Hardness: 80 Shore A

Tensile strength: 19 Mpa

Pa Dielectric strength: 20 kV/mm

Finished product

Rated voltage: 1000 VAC / 1500 VDC

Operating temperature: -40°C...+ 105°C

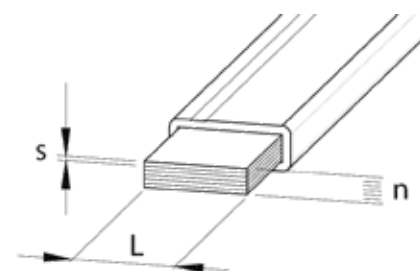
On request:

3 m version, halogen-free version

Example reference: CFX 4X20XI

Nbr of strips: n = 4 Width of strips: L = 20 mm

Thickness of strips: s = 1 mm



Derating coefficient for the use of two bars or more in parallel

Number of bars in parallel	2 bars	3 bars
Coefficient to apply	1.8	2.5



Cable ties and insulating cable trays

Hand-tightened cable ties - Indoor / Outdoor - UV-proof - Weatherproof

Range 22 in UU61X. All usages

The best and most economical technical alternative to the best tool-tightened cable ties.

Wide operating temperature range -40°C to +105°C

Type	Dimensions (mm)	Reference	Qty (m)
Cable ties	4.8 x 188	UNX2244-0	100
	4.8 x 287	UNX2247-0	100
	4.8 x 370	UNX2249-0	100
	7.6 x 218	UNX2271-0	100
	7.6 x 299	UNX2272-0	100
	7.6 x 376	UNX2273-0	100
	7.6 x 540	UNX2275-0	100
Screw-fastening base in U63X (Max. cable tie width 7.6 mm)		UNX1252	100
Ø8 wall-plug base in U63X (Max. cable tie width 7.6 mm)		UNX1251	100



Range 22HD in U71X. Chemical, Photovoltaic

For harsh chemical environments and photovoltaic power plants

Wide operating temperature range -60°C to +105°C

Dimensions (mm)	Reference	Qty (m)
2.5 x 100	UNX2221HD	200
3.6 x 142	UNX2233HD	100
4.8 x 188	UNX2244HD	100
4.8 x 287	UNX2247HD	100
7.6 x 299	UNX2272HD	100
7.6 x 376	UNX2273HD	100
7.6 x 540	UNX2275-0	100



Detectable cable ties

Range 22DT in U62X - For the food and pharmaceutical industries

Cable ties that can be detected by metal detectors and X-ray systems - Indoor use only.

	Dimensions (mm)	References	Qty (P)
Cable ties	2.5 x 100	UNX2221DT	200
	3.6 x 142	UNX2233DT	100
	4.8 x 188	UNX2244DT	100
	4.8 x 287	UNX2247DT	100
	4.8 x 370	UNX2249DT	100
	7.6 x 376	UNX2273DT	100
Screw-fastening base		UNX1243DT	100
Angled base		UNX1257DT	100



Insulating cable trays

Range 66 in U23X RAL 7035 - UV-resistant - Weatherproof - Wide temperature range

Simple: Just one range for all indoor and outdoor applications

Robust: High impact resistance: 20 J at -20°C

Reliable and durable: Over 45 years of experience

Excellent performance over time, even in the harshest of environments

Safety and optimised costs: No need to earth the cable tray.

H mm	W mm	Perforated bottom panel*	Cover	Splice plate	Divider	90° flat bend (Covers available)	Cover for 90° flat bend	Tee	Cover for Tee	End cap	Joint cover	Horizontal hinge	Vertical hinge	Horizontal bracket	Vertical bracket	Weighted roof support	Insulating rails
60	75	66090	66072	66825	66821	66060	66061	66078	66079	66093	66094	66844	66813	66103	66075	60155-48 60305-48	60202-48 60204-48
	100	66100	66102			66110	66111	66128	66129	66113	66114			66103	66155		
	150	66150	66152			66160	66161	66178	66179	66163	66164			66153	66205		
	200	66200	66202			66210	66211	66228	66229	66213	66214			66203	66205		
	300	66300	66302			66310	66311	66328	66329	66313	66314			66303	66305		
	400	66400	66402			66410	66411	66428	66429	66413	66414			66403	66405		
100	200	66220	66202	66835	66831	66230	66211	66248	66229	66233	66234	66854	66833	66203	66205		
	300	66320	66302			66330	66311	66348	66329	66333	66334			66323	66305		
	400	66420	66402			66430	66411	66448	66429	66433	66434			66403	66405		
	500	66520	66502			66530	66511	66548	66529	66533	66534			66503	66605		
	600	66620	66602			66630	66611	66648	66629	66633	66634			66603			

See Unex documentation for the number and type of screws required to install the various parts (splice plates, bends, Tees, hinges, brackets, etc.)

For ETN references, add the prefix UNX

* Available with closed bottom panel

Distribution trunking

Range 73 in U23X RAL 7035 - UV-resistant - Weatherproof - Wide temperature range

Simple: Just one range for all indoor and outdoor applications.

Robust: High impact resistance (IK10 except for 30x40 and 60x60)

Reliable and durable: Over 45 years of experience. Excellent performance over time, even in the harshest of environments.

Cross-section (mm)	Trunking + Cover 3 m	Divider 3 m	Flat bend	External bend	Internal bend	End cap	Joint cover	Connection and junction box
								
30 x 40	UNX73010-04	-	UNX73210-04	UNX73260-04	UNX73310-04	UNX73360-04	UNX73510-04	UNX73461-04
40 x 40	UNX73020-04	-	UNX73220-04	UNX73270-04	UNX73320-04	UNX73370-04	UNX73520-04	
40 x 60	UNX73071-04	UNX73820	UNX73221-04	UNX73271-04	UNX73321-04	UNX73371-04	UNX73521-04	
60 x 60	UNX73081-04	UNX73830	UNX73231-04	UNX73281-04	UNX73331-04	UNX73381-04	UNX73531-04	
60 x 90	UNX73082-04		UNX73232-04	UNX73282-04	UNX73332-04	UNX73382-04	UNX73532-04	
60 x 110	UNX73083-04		UNX73233-04	UNX73283-04	UNX73333-04	UNX73383-04	UNX73533-04	
60 x 150	UNX73085-04		UNX73235-04	UNX73285-04	UNX73335-04	UNX73385-04	UNX73535-04	
60 x 190	UNX73086-04		UNX73236-04	UNX73286-04	UNX73336-04	UNX73386-04	UNX73536-04	
60 x 230	UNX73088-04		UNX73238-04	UNX73288-04	UNX73338-04	UNX73388-04	UNX73538-04	

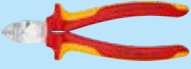
Panel trunking ranges 77 in U23X and 88 in U43X, Halogen-free

Simple: 2 ranges for all applications, even the most demanding

Compliance: Our panel trunking is certified for the global market

Height (mm)	Width (mm)	Range 88 in U43X SH		Range 77 in U23X			
		Certified EN 45545-2 - HL3 R22		Grey		Blue	
		Reference	Qty (m)	Reference	Qty (m)	Reference	Qty (m)
							
18	20	-	-	UNX18.20.77	80	-	-
25	20	UNX25.20.88	60	UNX25.20.77	60	-	-
33	30	UNX30.30.88	60	UNX30.30.77	60	-	-
42	20	UNX40.20.88	72	UNX40.20.77	72	-	-
42	30	UNX40.30.88	48	UNX40.30.77	48	UNX774030-06	48
42	43	UNX40.40.88	32	UNX40.40.77	32	-	-
42	60	UNX40.60.88	24	UNX40.60.77	24	-	-
60	20	-	-	UNX60.20.77	48	-	-
60	30	UNX60.30.88	36	UNX60.30.77	36	-	-
60	43	UNX60.40.88	32	UNX60.40.77	32	UNX776040-06	32
60	60	UNX60.60.88	32	UNX60.60.77	32	UNX776060-06	32
60	80	UNX60.80.88	32	UNX60.80.77	32	-	-
60	100	-	-	UNX60.100.77	12	-	-
60	120	UNX60.120.88	12	UNX60.120.77	12	-	-
80	30	UNX80.30.88	28	UNX80.30.77	28	UNX778030-06	28
80	43	UNX80.40.88	24	UNX80.40.77	24	UNX778040-06	24
80	60	UNX80.60.88	24	UNX80.60.77	24	UNX778060-06	24
80	80	UNX80.80.88	24	UNX80.80.77	24	UNX778080-06	24
80	100	UNX80.100.88	12	UNX80.100.77	12	UNX7780100-06	12
80	120	UNX80.120.88	12	UNX80.120.77	12	UNX7780120-06	12
100	43	UNX100.40.88	16	UNX100.40.77	16	UNX7710040-06	16
100	60	UNX100.60.88	16	UNX100.60.77	16	UNX7710060-06	16
100	80	UNX100.80.88	16	UNX100.80.77	16	UNX7710080-06	16
100	100	UNX100.100.88	8	UNX100.100.77	8	UNX77100100-06	8
100	150	-	-	UNX100.150.77	8	-	-

Stripping tools

Reference	Designation	Insulated 1000 V	Capacities		Length mm	Illustration
			Copper/Alu. cutting (mm ²)	Stripping (mm ²)		
KNI1262180	Automatic stripping pliers Wire cutter function	No	2.5	0.2 to 6		
KNI1426160	Diagonal cutting and stripping pliers	Yes	4	0.75 1.5 2.5	160	
KNI1242195	MultiStrip10 automatic stripping pliers - Wire cutter function	No	10	0.03 to 10		
KNI1252195	Precistrip16 automatic stripping pliers - Wire cutter function	No	16	0.08 to 16		
KNI1106160	Stripping pliers with spring	Yes		10	160	
KNI1366180	KNIPEX StriX stripping pliers and copper/aluminium wire-cutter	Yes	50	10	180	

Crimping tools

Reference	Designation	Wire-end fitting crimping	Pre-insulated lug crimping	RJ	Illustration
KNI975236	PreciForce® high-leverage crimping tool for pre-insulated lugs, connectors and sleeves.		0.5 to 6.0 mm ² - AWG 20 to 10		
KNI975304	Self-adjusting crimping tool for wire-end sleeves with side loading, square crimping of sleeves according to DIN 46228 Part 1 + 4.	0.08 to 10 + 16 mm ²			
KNI975308	Self-adjusting crimping tool for wire-end sleeves with front or side loading (2.5 mm ²), square crimping of sleeves according to DIN 46228 Part 1 + 4.	0.08 to 10 mm ²			
KNI975318	Self-adjusting crimping tool for wire-end sleeves with rotatable head, square crimping of sleeves according to DIN 46228 Part 1 + 4.	0.08 to 16 mm ²			
KNI975110	Crimping tool for RJ connectors. Cuts, strips unshielded ribbon telephone cables, crimps 6- and 8-pole RJ connectors.			RJ11 RJ12 RJ45	

Universal, multi-function pliers

Reference	Designation	Insulated 1000 V	Capacities				Length mm	Illustration
			Copper/ Alu. cut- ting	Mild steel cutting	Hard steel cutting	Stripping/Wire- end sleeve crimping (mm ²)		
KNI0826145	Universal high leverage pliers. Rounded head.	Yes	4 mm	3 mm	2 mm		145	
KNI1396200	6-in-1 pliers with spring. Wire cutting - Stripping - Wire-end sleeve crimping.	Yes	50 mm ²			0.75 1.5 2.5	200	

Needle-nose pliers

Reference	Designation	Insulated 1000 V	Capacities		Length mm	Illustration
			Mild steel	Hard steel		
KNI2616200	Half-round needle-nose pliers, 200 mm, insulated up to 1000 V	Yes	3.2 mm	2.2 mm	200	
KNI2626200	Half-round needle-nose pliers with 40° bend, 200 mm, insulated up to 1000 V	Yes	3.2 mm	2.2 mm	200	

Cutting pliers / wire cutters

Reference	Designation	Insulated 1000 V	Capacities			Illustration
			Copper/Alu.	Mild steel (mm)	Length (mm)	
KNI7803125	Super Knips® electronic cutting pliers Ground blade edges without bevel. Two-component grips	No	Ø1.6 mm	1	125	
KNI7806125	Super Knips® electronic cutting pliers Ground blade edges without bevel.	Yes	Ø1.6 mm	1	125	
KNI7006160	Diagonal cutting pliers, force reduced by 20% 2 mm for hard steel	Yes	Ø4 mm	3	160	
KNI9516160	StepCut cable shears with toothed blades.	Yes	Ø15 mm 50 mm²		160	
KNI9516165	Cable shears.	Yes	Ø15 mm 50 mm²		165	
KNI9516200	Cable shears with twin blades.	Yes	Ø20 mm 70 mm²		200	
KNI9531250	Cable shears with ratchet action.	No	Ø32 mm 240 mm²		250	
KNI9531280	Cable shears with ratchet action.	No	Ø52 mm 380 mm²		280	

Stripping tools

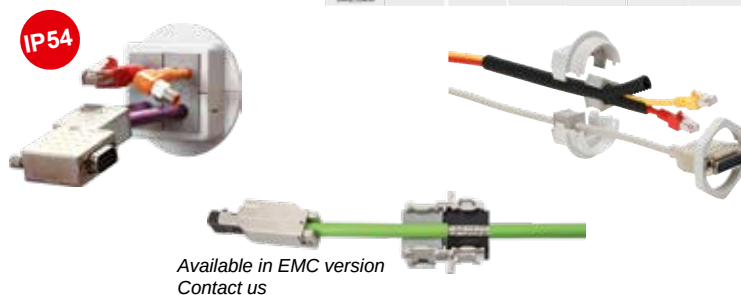
Reference	Designation	Insulated 1000 V	Cable stripping	Wire stripping	Coax cables	Illustration
KNI162050SB	Folding electrician's knife. Stainless steel blade.	No				
KNI1620165SB	Tool for stripping round cables with hook blade.	No	8 to 28 mm			
KNI169501SB	ERGOSTRIP® cable/wire stripping tool Cable stripping - Cable and wire strip- ping for coaxial and data cables.	No	3 x 1.5 mm² to 5 x 2.5 mm²	0.2 to 4 mm²	X	
KNI1274180SB	Automatic cable stripping pliers for elec- tric cables Ø4.4 to 7.5 mm	No	Ø4.4 to 7.5 mm			

Adjustable pliers

Reference	Designation	Insulated 1000 V	Grip (mm)	Length (mm)	Illustration
KNI8605180	Pliers wrench with two-component grips	No	40	180	
KNI8603180	Pliers wrench with PVC grips	No	40	180	
KNI8603250	Pliers wrench with PVC grips	No	52	250	
KNI8701180	Cobra® high-tech water pump pliers	No	36	180	
KNI8701250	Cobra® high-tech water pump pliers	No	46	250	
KNI8201200	Twingrip 200 slip-joint pliers, front grip and side grip	No	4 to 22	200	

Split cable glands. KVT series

Reference	Designation	KT grommet: Small / large	Thread
ICO45034	KVT20	1 / -	M20
ICO45035	KVT25	1 / -	M25
ICO45036	KVT32	1 / -	M32
ICO45203	KVT40	1 / -	M40
ICO45204	KVT50 2	2 / -	M50
ICO45212	KVT63 1	- / 1	M63
ICO45215	KVT63 4	4 / -	M63



Available in EMC version
Contact us

Split cable glands. KVT-ER series

Reference	Designation	KT grommet: Small / large	Thread Length Thread
ICO45450	KVT-ER 25	1 / -	M25 x 1.5
ICO45452	KVT-ER 32	1 / -	M32 x 1.5
ICO45454	KVT-ER 50 2	2 / -	M50 x 1.5
ICO45455	KVT-ER 63 1	- / 1	M63 x 1.5
ICO45456	KVT-ER 63 4	4 / -	M63 x 1.5



Small cable grommets 21 x 21

Grey grommet reference	Design.	cable Ø (mm)
ICO41251	BTK	Blank grommet
ICO39941	KT1	1-2
ICO39934	KT2	2-3
ICO41203	KT3	3-4
ICO41204	KT4	4-5
ICO41205	KT5	5-6
ICO41206	KT6	6-7
ICO41207	KT7	7-8
ICO41208	KT8	8-9
ICO41209	KT9	9-10
ICO41210	KT10	10-11
ICO41211	KT11	11-12
ICO41212	KT12	12-13
ICO41213	KT13	13-14
ICO41214	KT14	14-15
ICO41215	KT15	15-16

Other grommet sizes available.
Also available in multi-wire grommets.
Also available in black. Contact us.

Large cable grommets 41.5 x 42

Grey grommet reference	Design.	cable Ø (mm)
ICO41252	BTG	Blank grommet
ICO41216	KT16	16-17
ICO41217	KT17	17-18
ICO41218	KT18	18-19
ICO41219	KT19	19-20
ICO41220	KT20	20-21
ICO41221	KT21	21-22
ICO41222	KT22	22-23
ICO41223	KT23	23-24
ICO41224	KT24	24-25
ICO41225	KT25	25-26
ICO41226	KT26	26-27
ICO41227	KT27	27-28
ICO41228	KT28	28-29
ICO41229	KT29	29-30
ICO41230	KT30	30-31

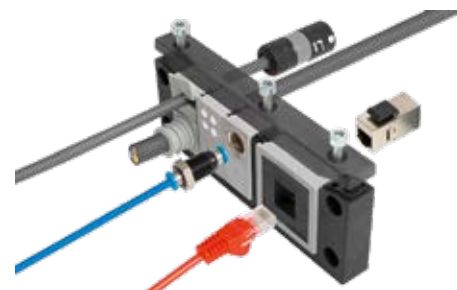


KEL-ER

IMAS-CONNECT modular adapter systems

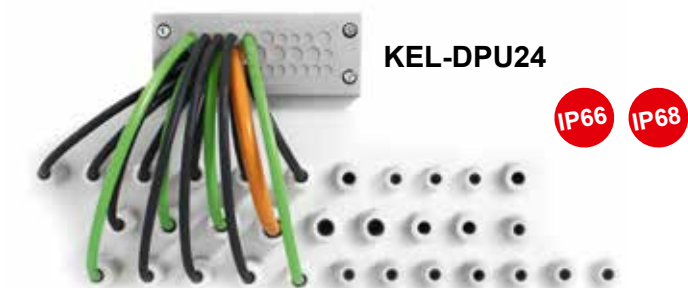
Reference	Type	Designation
ICO39968	USB 3.0 adapter grommet	AT-KS-USB3.0
ICO39969	HDMI adapter grommet	AT-KS-HDMI
ICO39970	CAT6 RJ45 adapter grommet	AT-KS-CAT6
ICO39971	Bulkhead fitting for pneumatic pipe Ø4 mm	AT-K-M12x1.0
ICO39972	Bulkhead fitting for pneumatic pipe Ø6 mm	AT-K-M14x1.0

Other types of grommet available. Contact us.



KEL-DPU 24 Cable entry plates

Reference	Designation	Number of cables
ICO43940	KEL-DPU 24 13	10 x 3.2 - 6.3 mm 3 x 16 - 20.5 mm
ICO43944	KEL-DPU 24 14	5 x 3.2 - 6.3 mm 2 x 4 - 7.5 mm 3 x 5.5 - 10.5 mm 1 x 8 - 12.5 mm 3 x 12 - 16.2 mm
ICO43936	KEL-DPU 24 16	8 x 3.2 - 5.5 mm 6 x 5 - 8.5 mm 2 x 9.5 - 14.5 mm
ICO43932	KEL-DPU 24 16-1	2 x 3.2 - 6.3 mm 9 x 4 - 7.5 mm 1 x 5.5 - 10.5 mm 1 x 8 - 12.5 mm 3 x 12 - 16.2 mm
ICO43934	KEL-DPU 24 17	4 x 3.2 - 6.3 mm 2 x 4 - 7.5 mm 1 x 5.5 - 10.5 mm 10 x 8 - 12.5 mm
ICO43938	KEL-DPU 24 20	12 x 3.2 - 5.5 mm 8 x 5 - 10.5 mm
ICO43930	KEL-DPU 24 21	1 x 3.2 - 6.3 mm 14 x 4 - 7.5 mm 4 x 5.5 - 10.5 mm 2 x 8 - 12.5 mm
ICO43942	KEL-DPU 24 32	32 x 3.2 - 6.3 mm



High cable density.

Shield clamps for 35 mm DIN rail

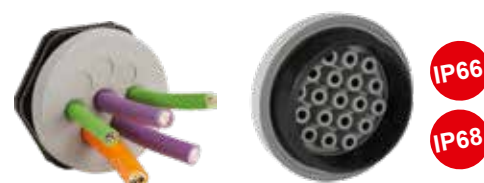
Without strain relief function SF/SKL	With strain relief function SFZ/SKL	Clamping zone (mm)
ICO36243	ICO36850	1.5-3
ICO36244	ICO36855	3-6
ICO36245	ICO36860	6-8
ICO36246	ICO36865	8-11
ICO36247	ICO36870	11-17
ICO36248	ICO36875	17-22
ICO36249	ICO36880	22-30



COMP320000ICOTE02

KEL-DPZ round cable entry plates

Reference	Designation	Metric thread	Number of cables
ICO43736	KEL-DPZ 25 3	M25	2 x 3.2 - 5.2 mm 1 x 3.2 - 6.5 mm
ICO43737	KEL-DPZ 25 4	M25	4 x 3.2 - 5.2 mm
ICO43732	KEL-DPZ 32 4	M32	3 x 3.2 - 6.5 mm 1 x 7.2 - 12.5 mm
ICO43733	KEL-DPZ 32 4-2	M32	4 x 5 - 9.5 mm
ICO43734	KEL-DPZ 32 7	M32	7 x 3.2 - 6.5 mm
ICO43741	KEL-DPZ 40 8	M40	4 x 3.2 - 6.5 mm 4 x 5 - 10.2 mm
ICO43750	KEL-DPZ 50 8	M50	5 x 5 - 10.2 mm 3 x 7.2 - 12.5 mm
ICO43751	KEL-DPZ 50 10	M50	7 x 3.2 - 6.5 mm 2 x 5 - 10.2 mm 1 x 16 - 22.2 mm



KEL-DPZ



KEL-DPU-HD

KEL-DPZ-HD

Hygienic range for the food processing industry

EMC shield clamps for backplate mounting

Without strain relief function LF/SKL	With strain relief function LFZ/SKL	Clamping zone (mm)
ICO36251	ICO36910	1.5-3
ICO36253	ICO36915	3-6
ICO36255	ICO36920	6-8
ICO36256	ICO36925	8-11
ICO36257	ICO36930	11-17
ICO36258	ICO36935	17-22
ICO36259	ICO36940	22-30



GN panel trunking

Certified lead-free and compliant with the RoHS directives.

Type	Reference	Pkg	Dim. (mm)		Nbr wires per trunking (50% filling)			Cover reference	Pkg
			H	W	1 mm ² ø2.9	1.5 mm ² ø3.2	2.5 mm ² ø3.5		
GN 30 x 25	SES08390131013	60	30	25	37	31	26	SES08390500013	48
GN 30 x 40	SES08390132013	36	30	40	68	56	47	SES08390510013	24
GN 40 x 25	SES08390141013	48	40	25	52	43	36	SES08390500013	48
GN 40 x 40	SES08390142013	32	40	40	94	77	64	SES08390510013	24
GN 40 x 60	SES08390143013	24	40	60	149	122	102	SES08390520013	24
GN 40 x 80	SES08390144013	24	40	80	204	168	140	SES08390530013	24
GN 40 x 100	SES08390145013	12	40	100	259	213	178	SES08390540013	12
GN 60 x 25	SES08390151013	48	60	25	80	66	55	SES08390500013	48
GN 60 x 40	SES08390152013	32	60	40	144	118	99	SES08390510013	24
GN 60 x 60	SES08390153013	24	60	60	229	188	157	SES08390520013	24
GN 60 x 80	SES08390154013	16	60	80	313	257	215	SES08390530013	24
GN 60 x 100	SES08390155013	16	60	100	398	327	273	SES08390540013	12
GN 60 x 120	SES08390156013	12	60	120	483	397	332	SES08390550013	12
GN 80 x 25	SES08390161013	24	80	25	107	88	74	SES08390500013	48
GN 80 x 40	SES08390162013	24	80	40	193	159	133	SES08390510013	24
GN 80 x 60	SES08390163013	24	80	60	308	253	211	SES08390520013	24
GN 80 x 80	SES08390164013	16	80	80	422	347	290	SES08390530013	24
GN 80 x 100	SES08390165013	12	80	100	537	441	369	SES08390540013	12
GN 80 x 120	SES08390166013	16	80	120	652	535	447	SES08390550013	16
GN 100 x 40	SES08390171013	24	100	40	240	198	165	SES08390510013	24
GN 100 x 60	SES08390172013	16	100	60	384	316	264	SES08390520013	24
GN 100 x 80	SES08390173013	16	100	80	529	435	363	SES08390530013	24
GN 100 x 100	SES08390174013	16	100	100	673	553	462	SES08390540013	12

Pliosil PET braided sleeving - Size 3 to 50

Also available in grey with suffix 013.

Reference	Designation	Colour	Ø mm
SES06240001010	Pliosil PET 3	Black	2...6
SES06240002010	Pliosil PET 4	Black	3...8
SES06240013010	Pliosil PET 40	Black	40...63
SES06240015010	Pliosil PET 50	Black	45...75

**Cutting machines for Pliosil PET**

Reference	Designation
SES06250250000	Plio-cut A
SES06250260000	Plio-cut A cutting wire

**Cable marker holders**

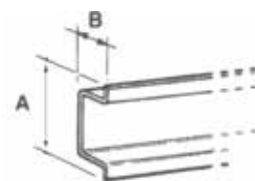
Cable marker holders for PLIO M65

Reference	Designation
SES01400001018	M-008 PE 0 hal
SES01400002018	M-012 PE 0 hal
SES01400003018	M-024 PE 0 hal
SES01400011010	M-008 PVC - Black
SES01400012010	M-012 PVC - Black
SES01400013010	M-024 PVC - Black



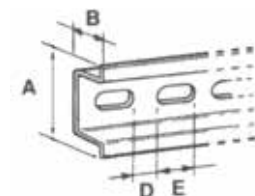
Symmetrical profiles

Reference		Design.	Length (m)	A (mm)	B (mm)
Zinc-plated steel with passivation	Sendzimir galvanised steel				
PRI01102100200001	PRI01302100200000	TS35	2	35	7.5
PRI01102100400001	PRI01302100400000	TS35/C	2	35	15
PRI01103100400001	PRI01303100400000	TS35/C	3	35	15



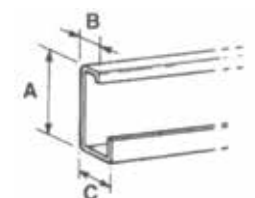
Perforated symmetrical profiles

Reference		Design.	Length (m)	A (mm)	B (mm)	D (mm)	E (mm)
Zinc-plated steel with passivation	Sendzimir galvanised steel						
PRI01102100204000	PRI01302100204000	TS35/F6	2	35	7.5	7	18
PRI01102100404000	PRI01302100404000	TS35/CF6	2	35	15	7	18
PRI01103100404000	PRI01303100404000	TS35/CF6	3	35	15	7	18



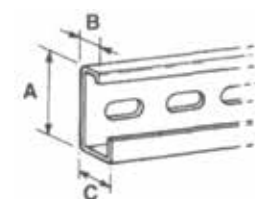
Asymmetrical profiles

Reference		Design.	Length (m)	A (mm)	B (mm)	C (mm)
Zinc-plated steel with passivation	Sendzimir galvanised steel					
PRI01102100100001	PRI01302100100000	TS32	2	32	9	15
PRI01103100100001	PRI01303100100000	TS32	3	32	9	15



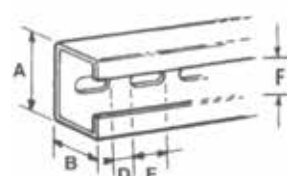
Perforated asymmetrical profiles

Reference		Design.	Length (m)	A (mm)	B (mm)	C (mm)
Zinc-plated steel with passivation	Sendzimir galvanised steel					
PRI01102100104000	PRI01302100104000	TS32	2	32	9	15



Perforated "C" profiles

Reference	Design.	Length (m)	A (mm)	B (mm)	D (mm)	E (mm)	F (mm)
PRI04102109005000	C3530WF	2	35	35	7	18	16
PRI04103109005000	C3530WF	3	35	35	7	18	16



Marking system

PK - Single character markers for cables and conduits

Marker to slide onto PKH type holder

Reference	Designation	Pkg (disk of)
PARPK+20004SV*9.*	PK2/4 colour code: (*) 0, 1, 2, 4, 5, 6 and 7	500
PARPK+20004SV*0.*	PK2/4 colour code: (*) 3, 8 and 9	500
PARPK+20004SV40.*	PK2/4 yellow: (*) 0 to 9	500
PARPK+20004SV40.*	PK2/4 yellow: (*) A to Z	500
PARPK+20004SV40.*	PK2/4 yellow: (*) +, -, :, /, =, STAR, EARTH	500



PK

PKH - Holder strips for PK markers

Reference	Designation	Nbr PK single character markers	Pkg
PARPKH070	PK-HOLDER 70 mm	10	Pack of 100
PARPKH110	PK-HOLDER 110 mm	20	Pack of 100
PARPOH30152AA0	POH-HOLDER 152 mm	30	Pack of 50



PKH



Hand-held M210 and M211 label printers

These label printers are quick and easy to use, and are designed specifically for industrial applications such as telecom / datacom or electrical identification. Max. label size: 19 mm

M210: designed for use on-site with keyboard

M211: designed for use on-site, controlled by smartphone (consumables compatible for both the M210 and the M211)

Reference	Designation
BRA152260	M210 label printer - Cardboard box
BRA311307	M210 label printer starter kit with case and battery
BRA170421	M210 hard case
BRA170381	M211 label printer
BRA170390	M211 label printer starter kit with case and battery
BRA170386	M211 hard case

Other accessories available: Contact us

Hand-held BMP™ 61 label printer

The BMP61 label printer can print on a vast range of pre-cut or continuous, personalised, durable labels such as sleeves, self-laminated labels and EPREP labels up to 48.76 mm wide.

Reference	Designation
BRA148638	BMP61 printer with Azerty keyboard
BRA198633	BMP61 printer with Azerty keyboard + Workstation PWID (Product Wire and ID) software suite

Hand-held M611™ label printer

The M611 hand-held printer is the connected version of the BMP61 printer. It uses the same consumables.

It is controlled using the Express Labels smartphone app via Wi-Fi or Bluetooth or from a computer using the Brady Workstation software. With automatic cutter.

All the BMP61 consumables are compatible with the BradyPrinter M611 printer.

Reference	Designation
BRA149570	M611 printer
BRA199974	M611 printer + Workstation PWID (Product and Wire ID) software suite.
BRA149567	Hard case for M611 printer

BMP™ 71 printer

The printer has an Azerty keyboard with a colour screen. It comes with a hard case, two rolls of labels, a black ribbon, a rechargeable battery and a mains adapter.

Max. label width: 50 mm.

Reference	Designation
BRA710601	BMP71 hand-held printer
BRA198643	BMP71 printer with Azerty keyboard + Workstation PWID (Product Wire and ID) software suite

Workstation software

Brady Workstation Product and Wire Identification software suite.

Reference	Designation
BRA149191	Workstation PWID software suite - Download
BRA149192	Workstation PWID software suite - CD

General and industrial labelling



BRA152260



BRA170381

Cable and wire labelling



Patch panel identification



Telecom/datacom identification



Heat-shrinkable sleeves



Screwdriver - Kraftform plus - 100 VDE series - Insulated up to 1000 V

Reference	Type	Size
WER05005655001	Slotted screws	Voltage detector – 0.5 x 3.0 x 70*
WER05006100001		0.4 x 2.5 x 80*
WER05006105001		0.5 x 3.0 x 100
WER05006110001		0.6 x 3.5 x 100*
WER05006115001		0.8 x 4.0 x 100*
WER05006120001		1.0 x 5.5 x 125*
WER05006125001		1.2 x 6.5 x 150
WER05006150001	Philips screws	PH 0 x 80
WER05006152001		PH 1 x 80
WER05006154001		PH 2 x 100
WER05006156001		PH 3 x 150
WER05006162001	Pozidriv screws	PZ 1 x 80*
WER05006164001		PZ 2 x 100*

Possibility to have a set of 7 screwdrivers (composition: see * in the table). Ref: WER05006148001



Blade: insulated, individually inspected in compliance with standard IEC 60900:2004.

Manufacture: conical blade, lasertip tip.

Handle: Kraftform anti-roll, multi-component.

Special maintenance kit - Kraftform Kompakt Maintenance 1

Reference	Type	Size
WER05135926001	817 VDE	1 x 9x102
	KK 60 i	1 x 0.4x2.5x154
	KK 60 Is	1 x 0.6x3.5x154 1 x 0.8x4x154 1 x 1.0x5.5x154
	KK 62 iS	1 x PH 1x154 1x PH 2x154
	KK 65 Is PZ	1 x PH 1x154 1x PH 2x154
	KK 67 i TORX	1 x TX 10x154
	KK 67 Is TORX	1 x TX 15x154 1xTX 20x154 1xTX 25x154
	1440	1 x 4.5-6.0x41.0
	247	1 x 0.5x3.0x70
	Joker Double	1 x 10x13x167
	8000A	1 x 1/4x152.0
	8784 A1	1 x 1/4x1/4x 37.0
	8794 SA	1 x 1/4x75.0
	8790 HMA	1 x 5.5x23 1 x 6x23 1 x 7x23 1 x 8x23 1 x 10x23 1 x 11x23 1 x 12x23 1 x 13x23
	893/4/1 K	1 x 1/4x50
	855/1 Z PZ	1 x PZ 1x25 1 x PZ 2x25
	840/1 Z Hex-Plus	1 x 3.0x25 1 x 4.0x25 1 x 5.0x25 1 x 6.0x25
	867 TORX	1 x TX 25x25



Compact tool kit with the 35 main screwdriver tools with VDE handles and 12 VDE blades; Joker double wrench with holding function, limit stop; 1/4" Zyklop Speed ratchet; 8 "manual and machine" sockets from 5.5-13; universal bit holder; 7 25 mm bits; 247 voltage detector

Kraftform Kompakt VDE 18 Universal 1 - 18 interchangeable parts - Insulated up to 1000 V

Reference	Type	Size
WER05003471001	Slotted screws	Voltage tester – 1 x 0.5 x 3.0 x 70
		1 x 0.4 x 2.5 x 154 – 1 x 0.6 x 3.5 x 154
		1 x 0.8 x 4.0 x 154 – 1 x 1.0 x 5.5 x 154
	Philips screws	1 x PH 1 x 154 – 1 x PH 2 x 154
	Slotted/Philips	1 x # 1 x 154 – 1 x # 2 x 154
	Pozidriv screws	1 x PZ 1 x 154 – 1 x PZ 2 x 154
	Slotted/Pozidriv	1 x # 1x154 – 1 x # 2 x 154
	Keys for electrical cabinets	2 square, 1 triangular, 1 Din



1 Kraftform 817 VDE handle for VDE WERA interchangeable blades.
Interchangeable insulated blades (each 154 mm long) - Voltage tester.

1/4" mini-ratchet for bits and sockets - Tool-Check Plus

Reference	Type	Size
WER05056490001	8001 A	1 x 1/4"x87.0
	889/4/1 K	1 x 1/4"x50.0
	800/1 TZ	1 x 1.0x5.5x25
	840/1 Z Hex-Plus	1 x 3x25; 1 x 4x25; 1 x 5x25; 1 x 6x25; 1 x 8x25
	851/1 TZ PH	2 x PH 1x25; 3 x PH 2x25; 1 x PH 3x25
	855/1 TH PZ	1 x PZ 1x25; 3 x PZ 2x25; 1 x PZ 3x25
	867/1 TZ TORX®	1 x TX 10x25; 1 x TX 15x25; 1 x TX 20x25; 1 x TX 25x25; 1 x TX 30x25; 1 x TX 40x25
	867/1 Z TORX® BO	1 x TX 10x25; 1 x TX 15x25; 1 x TX 20x25; 1 x TX 25x25; 1 x TX 30x25
	870/1	1 x 1/4"x25.0
	8790 HMA	1 x 5.5x23; 1x 6x23; 1 x 7x23; 1 x 8.0x23 1 x 10x23; 1 x 12x23; 1 x 13x23
	813	1 x 1/4"x78



kit including 28 bits, 1 813 handle suitable for bits with 1/4" hexagonal drive and the Wera series 1 bits, 1 Rapidaptor bit holder, 1 870/1 adapter (1/4" hexagon on 1/4" square), 7 sockets (1/4"). 1 Wera mini-ratchet. The Wera 870/1 adapter enables 1/4" sockets to be used as well

Earth straps

Tinned copper / red copper / 304 and 316 stainless steel

Reference		Cross-section (mm²)	Ext. measurements l x h	Weight g/m	Pkg (m)	Current (A)
Flat braids						
TRETPCE5	TRETPCR5	5	8 x 1	5	25	45
TRETPCE8	TRETPCR8	8	8 x 1.5	8	25	65
TRETPCE10	TRETPCR10	10	10 x 1.5	10	25	75
TRETPCE16	TRETPCR16	16	15 x 2	16	25	120
TRETPCE25	TRETPCR25	25	25 x 2	25	25	150
TRETPCE35	TRETPCR35	35	25 x 2.8	35	25	200
TRETPCE50	TRETPCR50	50	30 x 3.5	50	10	250
Round braids						
TRETRCE2	TRETRCR2	2	1	2 g/m	25 m	25
TRETRCE4	TRETRCR4	4	3	4 g/m	25 m	35
TRETRCE6	TRETRCR6	6	4	6 g/m	25 m	45
TRETRCE8	TRETRCR8	8	4.5	8 g/m	25 m	65
TRETRCE10	TRETRCR10	10	5	10 g/m	25 m	75
TRETRCE16	TRETRCR16	16	6	16 g/m	25 m	120
TRETRCE20	TRETRCR20	20	6.5	20 g/m	25 m	140
TRETRCE25	TRETRCR25	25	8	25 g/m	25 m	150
TRETRCE30	TRETRCR30	30	9	30 g/m	25 m	180
TRETRCE35	TRETRCR35	35	9.5	35 g/m	25 m	200
TRETRCE50	TRETRCR50	50	11	50 g/m	10 m	250

For flat 304 or 316 stainless steel braids, Contact us.



Flat shunts

Tinned copper / 304 and 316 stainless steel

Reference	Cross-section (mm ²)	Braid L x H	Pkg	Current (A)	LEA	Hole Ø
TRESCE6-200-6	6	8 x 1	20	40	200	M6
TRESCE10-200-6	10	10 x 1.5	20	75	200	M6
TRESCE10-400-6	16	10 x 1.5	20	75	400	M6
TRESCE16-150-8	16	15 x 2	20	120	150	M8
TRESCE16-200-8	16	15 x 2	20	120	200	M8
TRESCE16-250-8	16	15 x 2	20	120	250	M8
TRESCE16-300-8	16	15 x 2	20	120	300	M8
TRESCE25-200-10	25	25 x 2	20	150	200	M10
TRESCE25-300-10	25	25 x 2	20	150	300	M10



EXAMPLE REFERENCE:			
Shunt (S)	SCE20-450-10		
Material			
Cross-section (mm ²)			
Length (LEA)			
Hole (M= Ø + 0.5 mm)			

Polyamide 6/6 braided sleeving (black/grey/orange)

Excellent abrasion and friction resistance. Waterproof. Self-extinguishing. Non-toxic.

Reference			Nominal Ø	Ø		Pkg
Black	Grey	Orange		min.	max.	
TREGTPDIA3N	TREGTPDIA3G	TREGTPDIA3OR	3	2	5	100 m
TREGTPDIA6N	TREGTPDIA6G	TREGTPDIA6OR	6	6	10	100 m
TREGTPDIA8N	TREGTPDIA8G	TREGTPDIA8OR	8	8	14	100 m
TREGTPDIA10N	TREGTPDIA10G	TREGTPDIA10OR	10	10	16	100 m
TREGTPDIA12N	TREGTPDIA12G	TREGTPDIA12OR	12	12	18	100 m
TREGTPDIA16N	TREGTPDIA16G	TREGTPDIA16OR	16	16	20	100 m
TREGTPDIA20N	TREGTPDIA20G	TREGTPDIA20OR	20	20	22	50 m
TREGTPDIA25N	TREGTPDIA25G	TREGTPDIA25OR	25	23	29	50 m
TREGTPDIA30N	TREGTPDIA30G	TREGTPDIA30OR	30	30	35	50 m
TREGTPDIA35N	TREGTPDIA35G	TREGTPDIA35OR	35	35	40	50 m
TREGTPDIA40N	TREGTPDIA40G	TREGTPDIA40OR	40	40	45	50 m
TREGTPDIA50N	TREGTPDIA50G	TREGTPDIA50OR	50	45	53	50 m



CABLES AND CABLE CARRIERS

TITLE	BRAND	PAGE
Cable protection systems	PMA	D.2
Flexible cables for power transmission.....	TOP CABLE	D.4
Cables and wires.....	TOP CABLE	D.5
Sheath systems and fittings.....	ANAMET	D.6

CYL highly flexible conduits

Polyamide 6, UL/CSA conduit, medium thickness, very flexible, good resistance to chemical products and impacts, black.

Particularly suitable for low-temperature applications and for the construction of machines or equipment. Compatible with all types of PMA fitting.

Reference	Conduit Ø DN	Int. conduit Ø in mm	Static bending radius (mm)	Pkg
PMACYLT-07B50	7	6.2	15	50
PMACYLT-10B50	10	9.6	20	50
PMACYLT-12B50	12	12.0	30	50
PMACYLT-17B50	17	16.2	40	50
PMACYLT-23B50	23	22.6	45	50
PMACYLT-29B50	29	29.0	55	50
PMACYLT-36B30	36	36.5	60	30
PMACYLT-48B30	48	47.5	54.5	30

Also available in sizes 56, 70, 95 and 125 and in grey.



CF economical conduits

Polyamide 6 conduit, medium thickness, good flexibility, resistance to impacts and the weather, black.

Suitable for the construction of machines or equipment.

Compatible with all types of PMA fitting.

Reference	Conduit Ø DN	Int. conduit Ø in mm	Static bending radius (mm)	Pkg
PMACF-07B50	7	6.2	15	50
PMACF-10B50	10	9.6	20	50
PMACF-12B50	12	12.0	25	50
PMACF-17B50	17	16.2	40	50
PMACF-23B50	23	22.6	45	50
PMACF-29B50	29	29.0	55	50
PMACF-36B30	36	36.5	60	30
PMACF-48B30	48	47.5	54.5	30

Also available in sizes 56, 70 and 95 and in grey.



CL conduits for networks

Polyamide 6 conduit, slit, thin-wall, self-extinguishing, halogen-free, green.

Suitable for telecom applications (optical fibre).

Reference	Conduit Ø DN	Int. conduit Ø in mm	Static bending radius (mm)	Pkg
PMACL-17XG50L	17	16.2	40	50
PMACL-23XG50L	23	22.6	45	50

G = Green / B = Blue / O = Orange / Y = Yellow



BVND straight metric fitting and BVWD elbow metric fitting

Polyamide 6 IP66 metric fittings, quick to fit, excellent mechanical and impact resistance, black.

Compatible with all types of PMA conduit, including PACOF (except PACOF-14 and PACOF-20)

Straight fitting reference	Elbow fitting reference	For conduit Ø DN	Metric thread
PMABVND-M120GT	PMABVWD-M120GT	10	M12 x 1.5
PMABVND-M162GT	PMABVWD-M162GT	12	M16 x 1.5
PMABVND-M207GT	PMABVWD-M207GT	17	M20 x 1.5
PMABVND-M253GT	PMABVWD-M253GT	23	M25 x 1.5

Also available in IP68, with metal thread, in PG, NPT, Gas and UNEF pitch, in sizes 7, 29, 36 and 48, in other metric units, different elbows (45°, 90° large radius) and in grey.



PIS and XR90 conduits for robotics

Extremely flexible conduits, excellent abrasion resistance, medium thickness, black.

PIS: polyamide 12, excellent resistance to UV and intensive movements.

Also available in sizes 07, 10, 12, 17, 48, 56, 70, 95, 125 and in grey.

XR90: polyamide 12, multi-layer, wear indicator for preventive maintenance.

Available in sizes 23, 29, 36, 48, 56, 70

Reference	Conduit Ø DN	Int. conduit Ø (mm)	Static/dynamic bending radius (mm)	Pkg
PMAPIST-17B50	17	16.4	30/65	50
PMAPIST-23B50	23	22.6	35/90	50
PMAPIST-29B50	29	29.0	45/110	50
PMAPIST-36B30	36	36.5	60/165	30

Accessories: Contact us.



PUE robot conduits

PUE: polyurethane, extremely flexible conduit, excellent resistance to extreme movements. Also available in size 23.

Reference	Conduit Ø DN	Int. conduit Ø (mm)	Static/dynamic bending radius (mm)	Pkg
PMAPUET-29B30	29	28.8	40/90	30
PMAPUET-36B30	36	35.8	50/120	30
PMAPUET-48B21	48	48.6	60/130	30
PMAPUEG-56B30	56	56.3	90/170	30
PMAPUEG-70B30	70	68.2	100/220	30

PMAFLEX PACOF conduits

PACOF divisible conduit, flexible, medium thickness, IP54, black, excellent fire performance. Ideal for subsequent operations or repairs in the construction of machines and installations.

Also available in sizes 07, 23, 29, 36, 48, 70 and in PP (polypropylene) version.

Reference	Conduit Ø DN	Int. conduit Ø (mm)	Bending radius (mm)	Pkg
PMAPACOF-10B50	10	8.5	33	50
PMAPACOF-12B50	12	11.0	35	50
PMAPACOF-14B50	14	13.0	42	50
PMAPACOF-17B50	17	15.5	45	50
PMAPACOF-20B50	20	19.1	55	50

Accessories: Contact us.



ATEX conduits

Extremely flexible multi-layer polyamide 12/polyethylene conduit, electrostatic load discharging, black ext. and yellow int. Excellent mechanical resistance, abrasion resistance, UV resistance and cold impact resistance. Particularly suitable for ATEX 1/2 and 21/22 environments (according to ATEX 137), indoors and outdoors.

Also available in sizes 10, 36 and 48. Accessories: Contact us.

Reference	Conduit Ø DN	Int. conduit Ø (mm)	Static/dynamic bending radius (mm)	Pkg
PMAXESX0350	12	11.8	30/70	50
PMAXESX0450	17	15.2	35/85	50
PMAXESX0550	23	22.0	40/110	50
PMAXESX0650	29	27.5	50/130	50



EMC protection systems

3-part systems to protect your cables from electromagnetic interference. Composed of a conduit, a high-performance EMC shield and a connector providing shielding continuity.

Contact us.



TOPFLEX® H05V-K and H07V-K: Flexible cables for electrical cabinet wiring.

According to: EN 50525-2-31 / IEC 60227-3. Certifications: HAR / AENOR / SEC / RoHS / CE.
Flexible, extra slippery PVC. Reaction to fire CPR: Eca, according to EN 50575.

Description:

The standardised identification of insulated conductors is as follows:

Blue (BL) RAL 5012	Green/Yellow (VJ) RAL 1021 / RAL 6018
Brown (MA) RAL 8003	Grey (GR) RAL 7000
Black (NO) RAL 9005	Dark blue (BF) RAL 5010
Red (RO) RAL 3000	

Other colours available on request.



Example reference TOPVK1-NO (VK 1 mm² black)

TOPFLEX® MS TRI-RATED H07V2-K: Internal wiring of electrical cabinets. (UL, CSA, BS, EN)

According to: EN 50525-2-31 / BS 6231 / UL 758 / CSA C22.2. Certifications: HAR / AENOR / UL LISTED / RoHS / CE.
Reaction to fire CPR: Eca, according to EN 50575.

Description:

0.50-16 mm² - 100 m reels (or drums on request)

25 mm² and greater - Length on request according to need.

The standardised identification of insulated conductors is as follows:

Blue (BL) RAL 5012	Grey (GR) RAL 7000
Brown (MA) RAL 8003	Dark blue (BF) RAL 5010
Black (NO) RAL 9005	White (BA) RAL 9010
Red (RO) RAL 3000	Orange (OR) RAL 2003
Green/Yellow (VJ) RAL 1021 / RAL 6018	Purple (VI) RAL 4005

Other colours available on request.



Example reference TOPV2K1.5-RO (V2K 1.5 mm² red)

XTREM® H07RN-F: 0.6/1 kV power cable for fixed and mobile applications

According to EN 50525-2-21 / IEC 60092-353 / IEC 60245. Certifications HAR / AENOR / DNV / RoHS / CE.

Excellent flexibility. Reaction to fire CPR: Eca, according to EN 50575.

Excellent resistance to chemicals, oils, greases and mineral oils.

Presence of water: AD8 Submersion. Available in reels or drums.

Flexible black rubber insulation.



Example reference TOPRNF4G2.5 (2.5 mm² 3-wire + earth cable)

SCREENFLEX® 200 VC4V-K: 0.6/1 K shielded power cable

Recommended for all types of signal transmission connections where the voltage induced by an external electromagnetic field may affect the signals transmitted.

According to EN 50525 / IEC 60502-1.

Fire performance CPR according to EN 50575: Cca -s2, d1, a3 (0.6/1 kV grey outer sheath).

Flexible PVC grey outer sheath. With ripcord.



Example reference TOPRC4VK4G1.5

4G1.5...4G10. TOXFREE® ZH ROZ1K-EMC: 0.6/1 KV shielded EMC LSZH cable for VFD 3X16+3G2.5...3X240+3G50.

Recommended for motors with variable frequency drive and installations where it is necessary to limit the effects of electromagnetic interference (EMI).

According to IEC 60502-1 / IEC 60092-353

Certifications: BUREAU VERITAS / DNV-GL / ABS / LLOYD'S REGISTER / RoHS / CE

Reaction to fire CPR: Cca-s1a, d1, a1, according to EN 50575.

Double shield to eliminate any electromagnetic interference, ensuring complete shielding coverage.

Black polyolefin LSHF outer sheath. With ripcord



Example reference TOPROZ1KEMC3X50+3G10

POWERFLEX® RV-K

0.6/1 KV flexible industrial cable

The POWERFLEX® RV-K cable is suitable for low voltage industrial installations, urban networks, domestic installations, etc. Its flexibility facilitates installation and means that it is particularly suitable for use in complex layouts. It can be buried, installed in a pipe or exposed to the open air without any additional protection.

- According to: IEC 60502-1 / UNE 21123-2
- Certifications: AENOR / BUREAU VERITAS / KEMA-KEUR / RoHS / CE
- Flame non-propagation according to EN 60332-1/IEC 60332-1.
- Reaction to fire CPR: Eca, according to EN 50575.
- Chemical and oil resistance: good.
- UV resistance according to UNE 211605.
- Presence of water: AD7 immersion.
- Flexible black PVC insulation.



Example reference

TOPRVK1X240 (240 mm² cable with 1 conductor)
TOPRVK4G10 (10 mm² 3-wire + earth cable)

TOPSOLAR® PV H1Z2Z2-K

Cable for photovoltaic installation, certified TÜV, EN and CPR Cca.

This single-pole cable is designed to satisfy the various needs of the solar energy industry. It is a highly flexible cable, compatible with all the main fittings.

It is suitable for damp and wet environments.

- Reaction to fire CPR: Cca -s1b, d2, a1, according to EN 50575.
- Chemical and oil resistance: excellent.
- Grease and mineral oil resistance: excellent.
- UV resistance according to EN 50618.
- Ozone resistance according to EN 50618.
- Presence of water: AD8 Submersion

Installation conditions: Open air, can be buried directly

Cross-linked flexible rubber outer sheath, low smoke emission and halogen-free (LSHF).

Requirements relative to the outer sheath according to EN 50618 table B1, appendix B and IEC 62930. Red or black.



Example reference

TOPPVH1Z2Z2K1X4-ROR100
(Red 4 mm² cable with 1 conductor)

TOPFLAT® H07VVH6-F

flat cable for bridge cranes, lifts, hoists, etc.

The hanging length of the cable can reach up to 35 m and its pull out speed can reach up to 1.6 m/s (overlying cables is not recommended when installing this type of cable).

- According to: HD 359 / EN 50214 / IEC 60277-6.
- Certifications: HAR / AENOR / CE/ RoHS
- Flame non-propagation according to EN 60332-1/IEC 60332-1.
- Reduced halogen emission. Chlorine <15%.
- Chemical and oil resistance: acceptable.

Installation conditions: open air.

- Flexible PVC black outer sheath.



Example reference

TOPVVH6F12G1.5

Other types of cable available:

TOPFLEX® HO5VV-F: Flexible cable for connecting small home appliances.

FLEXTel® 140 HO5VV5-F CNOMO: Flexible, oil-resistant cable. Specifically designed for the motor industry.

TOXFREE® RZ1-K: Flexible, halogen-free cable (LSHF) for public places.

TOXFREE® ES05Z1-K & HO7Z1-K: Flexible, halogen-free cable (LSHF) for electrical panel wiring.



EF type ANACONDA SEALTITE black conduit

Flexible, robust conduit for general use, good mechanical protection. **Construction:** galvanised steel single interlock conduit, cord packing and smooth PVC coating, lead-free, RoHS. Resistant to sunlight and UV. **Operating temperature:** -25°C to +70°C, + 90°C intermittently. **Colour:** black. High crush resistance (1250 N). High impact resistance (6 J). High tensile strength (1000 N). **Protection rating:** IP 66/ 67.



Reference	Int. Ø (mm)	Ext. Ø (mm)	Bend radius (mm)	Pkg (in m)	Sealtite EF Ø (in inches)
ANA3150061	6.4	11.5	40	50	1/4"
ANA3150101	10.1	14.4	50	50	5/16"
ANA3150121	12.6	17.8	60	75	3/8"
ANA3150161	16	21.1	75	60	1/2"
ANA3150201	21	26.4	90	50	3/4"
ANA3150261	26.5	33.1	120	30	1"
ANA3150351	35.1	41.8	135	30	1.1/4"
ANA3150401	40.3	47.8	165	15	1.1/2"
ANA3150501	51.6	59.9	210	15	2"



OR type ANACONDA SEALTITE black conduit

Flexible, robust conduit. Very high resistance to grease and oil, good mechanical protection. **Construction:** galvanised steel single interlock conduit, cord packing and PVC coating, lead-free, RoHS. Resistant to sunlight and UV. **Operating temperature:** -15°C to +100°C, +120°C intermittently. **Colour:** black (also available in blue). High crush resistance (1250 N), high impact resistance (6 J), high tensile strength (1000 N). **Protection rating:** IP 66/ 67.



Reference	Int. Ø (mm)	Ext. Ø (mm)	Bend radius (mm)	Pkg (in m)	Sealtite OR Ø (inches)
ANA3200061	6.4	11.5	40	50	1/4"
ANA3200101	10.1	14.4	50	50	5/16"
ANA3200121	12.6	17.8	60	75	3/8"
ANA3200161	16	21.1	75	60	1/2"
ANA3200201	21	26.4	90	50	3/4"
ANA3200261	26.5	33.1	120	30	1"
ANA3200351	35.1	41.8	150	30	1.1/4"
ANA3200401	40.3	47.8	200	15	1.1/2"
ANA3200501	51.6	59.9	250	15	2"



Nickel-plated brass ISO straight fittings

For Sealtite & Multiflex conduit



Reference	ISO thread	Max. int. Ø (mm)	Pkg	Sealtite EF Ø (in inches)
ANA8120122	M12 x 1.5	5.2	10	1/4"
ANA7120150	M16 x 1.5	8.3	10	5/16"
ANA7120161	M16 x 1.5	11	10	3/8"
ANA7120171	M20 x 1.5	11	10	3/8"
ANA7120201	M20 x 1.5	14.5	10	1/2"
ANA7120251	M25 x 1.5	19.4	5	3/4"
ANA7120321	M32 x 1.5	24.7	5	1"
ANA7120401	M40 x 1.5	33.3	2	1.1/4"
ANA7120501	M50 x 1.5	38	2	1.1/2"
ANA7120631	M63 x 1.5	49	2	2"



Also available:
- 45° and 90° fixed or swivel fittings, 304 stainless steel, 316 stainless steel, NPT and PG thread
- Range of IECEx ATEX fittings and cable glands

FCE type ANACONDA MULTITITE conduit

Extremely flexible conduit, good mechanical protection.

Construction: galvanised steel single interlock conduit, thin wall PVC convoluted coating. **Operating temperature:** -20°C to +80°C, +90°C intermittently. **Colour:** black. High crush resistance (1250 N), high impact resistance (6 J), high tensile strength (1000 N).

Protection rating: IP 67.



Reference	Int. Ø (mm)	Ext. Ø (mm)	Bend radius (mm)	Pkg (in m)	Multitite FCE DN (in mm)
ANA3710102	7	10	30	25	10
ANA3710122	10	14	37	25	12
ANA3710162	13	17	45	25	16
ANA3710202	17	21.5	55	25	20
ANA3710252	21.2	26	70	25	25
ANA3710322	28.1	34	95	25	32
ANA3710402	37.7	45	115	25	40
ANA3710502	48.4	56	135	25	50
ANA3200501	51.6	59.9	250	15	2"



UI type ANACONDA MULTIFLEX conduit

Very flexible conduit providing increased mechanical protection.

Construction: 304 stainless steel double-interlock conduit.

Operating temperature: -100°C to +600°C. **Colour:** metal. High crush resistance (4000 N), high impact resistance (6 J), high tensile strength (1000 N). **Protection rating:** IP 40.



Reference	Int. Ø (mm)	Ext. Ø (mm)	Bend radius (mm)	Pkg (in m)	UI MULTIFLEX Ø (in inches)
ANA5758400	8	11	50	100	1/4"
ANA5120100	9.5	12.5	50	30	5/16"
ANA5120120	13	16	65	30	3/8"
ANA5120160	17	21	75	30	1/2"
ANA5120220	22	26	90	30	3/4"
ANA5120250	26	30	120	30	1"
ANA5120340	34	39	175	30	1.1/4"
ANA5120400	40.3	44.4	230	15	1.1/2"
ANA5120500	51.6	55.7	265	15	2"



Nickel-plated brass ISO straight fittings

For Multitite conduit



Reference	ISO thread	Max. int. Ø (mm)	Pkg	FCE Multitite
ANA7120154	M16 x 1.5	8.3	10	DN12
ANA7120144	M20 x 1.5	8.3	10	DN12
ANA7120164	M16 x 1.5	11.2	10	DN16
ANA7120174	M20 x 1.5	11.2	10	DN16
ANA7120204	M20 x 1.5	15.2	10	DN20
ANA7120254	M25 x 1.5	19.2	5	DN25
ANA7120324	M32 x 1.5	25.9	5	DN32
ANA7120404	M40 x 1.5	35.1	2	DN40
ANA7120454	M50 x 1.5	35.1	2	DN40
ANA7120554	M50 x 1.5	45.4	2	DN50
ANA7120604	M63 x 1.5	45.4	2	DN50



Also available:
- 45° and 90° fixed or swivel fittings, 304 stainless steel, 316 stainless steel, NPT and PG thread
- Range of IECEx ATEX fittings and cable glands

COMMERCIAL AND INDUSTRIAL

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C curve modular circuit breakers

Protection of resistive and inductive loads with average inrush current.
Contact us for other curves.

Rating (A)	Ph/N 1UM		Single-pole 1UM	Two-pole 2UM	Three-pole 3UM	Four-pole 4UM
Series	SN201L	SN201SL	S201	S202	S203	S204
NF EN60898 (kA)	4.5		6	6	6	6
NF EN60947-2 (kA)	6		10	10	10	10
1	2CSS245102R0014	2CSS245202R0014	2CDS251001R0014	2CDS252001R0014	2CDS253001R0014	2CDS254001R0014
2	2CSS245102R0024	2CSS245202R0024	2CDS251001R0024	2CDS252001R0024	2CDS253001R0024	2CDS254001R0024
3	-	-	2CDS251001R0034	2CDS252001R0034	2CDS253001R0034	2CDS254001R0034
4	2CSS245102R0044	2CSS245202R0044	2CDS251001R0044	2CDS252001R0044	2CDS253001R0044	2CDS254001R0044
6	2CSS245102R0064	2CSS245202R0064	2CDS251001R0064	2CDS252001R0064	2CDS253001R0064	2CDS254001R0064
10	2CSS245102R0104	2CSS245202R0104	2CDS251001R0104	2CDS252001R0104	2CDS253001R0104	2CDS254001R0104
16	2CSS245102R0164	2CSS245202R0164	2CDS251001R0164	2CDS252001R0164	2CDS253001R0164	2CDS254001R0164
20	2CSS245102R0204	2CSS245202R0204	2CDS251001R0204	2CDS252001R0204	2CDS253001R0204	2CDS254001R0204
25	2CSS245102R0254	2CSS245202R0254	2CDS251001R0254	2CDS252001R0254	2CDS253001R0254	2CDS254001R0254
32	2CSS245102R0324	2CSS245202R0324	2CDS251001R0324	2CDS252001R0324	2CDS253001R0324	2CDS254001R0324
40	2CSS245102R0404	-	2CDS251001R0404	2CDS252001R0404	2CDS253001R0404	2CDS254001R0404
50	-	-	2CDS251001R0504	2CDS252001R0504	2CDS253001R0504	2CDS254001R0504
63	-	-	2CDS251001R0634	2CDS252001R0634	2CDS253001R0634	2CDS254001R0634

UM: modular unit (pitch of 17.5 mm).



SN201L



S203

FH202S 30 mA two-pole RCDs

Rating (A)	UM	AC type	A type
25	2	2CSF202002R1250	2CSF202102R1250
40	2	2CSF202002R1400	2CSF202102R1400
63	2	2CSF202002R1630	2CSF202102R1630



FH202S

F202 two-pole RCDs

Sensitivity (mA)	Rating (A)	AC type	A type	A type (APR)	B type
30	25	2CSF202001R1250	2CSF202101R1250	2CSF202401R1250	2CSF202568R1250
	40	2CSF202001R1400	2CSF202101R1400	2CSF202401R1400	2CSF202568R1400
	63	2CSF202001R1630	2CSF202101R1630	2CSF202401R1630	2CSF202568R1630
300	25	2CSF202001R3250	2CSF202101R3250	-	2CSF202568R3250
	40	2CSF202001R3400	2CSF202101R3400	-	2CSF202568R3400
	63	2CSF202001R3630	2CSF202101R3630	-	2CSF202568R3630



FH202

F204 four-pole RCDs

Sensitivity (mA)	Rating (A)	AC type	A type	A type (APR)	B type
30	25	2CSF204023R1250	2CSF204123R1250	2CSF204401R1250	2CSF204568R1250
	40	2CSF204023R1400	2CSF204123R1400	2CSF204401R1400	2CSF204568R1400
	63	2CSF204023R1630	2CSF204123R1630	2CSF204401R1630	2CSF204568R1630
300	25	2CSF204023R3250	2CSF204123R3250	-	2CSF204568R3250
	40	2CSF204023R3400	2CSF204123R3400	-	2CSF204568R3400
	63	2CSF204023R3630	2CSF204123R3630	-	2CSF204568R3630



F204

Accessories

Designation	UM	Circuit breaker	
		SN201L	S201-S202-S203-S204
Fault signalling switch	0.5	2CSS200924R0001	-
Auxiliary contact	0.5	2CSS200923R0001	2CDS200912R0001
Configurable universal contact (auxiliary or fault signal)	0.5	-	2CDS200922R0001
Bottom-fitting auxiliary contact (not compatible with the RCD)	1 NO	-	2CDS200970R0002
	1 NC	-	2CDS200970R0001
Shunt release AC/DC: 12-60 V AC: 110-415 V DC: 110-250 V	1	-	2CDS200909R0001
	1	-	2CDS200909R0002
	1	-	2CDS200909R0002
Undervoltage release 230 VAC (other voltages available)	1	-	2CSS200911R0005

An undervoltage or shunt release can be used with a universal contact.



470900



S201 + CA

DDA200 AC type instantaneous RCD blocks mounted on left of circuit breaker (except Ph + N)

Protection against sinusoidal earth fault currents. Contact us for other sensitivities.

Sensitivity mA	Rating (A)	Two-pole DDA202	Three-pole DDA203	Four-pole DDA204
30	0.5 to 25	2CSB202001R1250	2CSB203001R1250	2CSB204001R1250
	32 to 40	2CSB202001R1400	2CSB203001R1400	2CSB204001R1400
	50 and 63	2CSB202001R1630	2CSB203001R1630	2CSB204001R1630
300	0.5 to 25	2CSB202001R3250	2CSB203001R3250	2CSB204001R3250
	32 to 40	2CSB202001R3400	2CSB203001R3400	2CSB204001R3400
	50 and 63	2CSB202001R3630	2CSB203001R3630	2CSB204001R3630



DDA202

AC type 30 mA combined RCD/MCBs

Rating (A)	DS201L	DS201
NF EN60898 (kA)	4.5	6
NF EN60947-2 (kA)	6	10
10	2CSR245041R1104	2CSR255041R1104
16	2CSR245041R1164	2CSR255041R1164
20	2CSR245041R1204	2CSR255041R1204
32	2CSR245041R1324	2CSR255041R1324



DS201(L)

Kunzite III LED spotlight

Indoor use

Cast aluminium / Toughened glass / IP65 / L80B20 > 50,000 hours / Operating temperature: -25°C to +40°C

Eligible for EPC (Energy Performance Certificate) 5-year warranty 24 hours a day

Mounting bracket For medium distance lighting of indoor areas

Reference	Power (W)	Luminous flux (lm)	Colour (°K)	Angle (°)	Dimensions (mm)	Equivalent to
ADDAP3K010WBL30110840	10	1220	4000	110	107 x 140 x 32	75 W halogen
ADDAP3K020WBL30110840	20	2380	4000	110	152 x 190 x 40	100 W halogen
ADDAP3K030WBL30110840	30	3600	4000	110	167 x 200 x 40	150 W halogen
ADDAP3K050WBL30110840	50	6300	4000	110	220 x 265 x 47.5	250 W halogen
ADDAP3K080WBL30110840	80	9910	4000	110	245 x 300 x 49.5	400 W halogen
ADDAP3K100WBL30110840	100	13210	4000	110	295 x 345 x 53.5	500 W halogen
ADDAP3K150WBL30110840	150	19150	4000	110	330 x 365 x 53.5	750 W halogen
ADDAP3K200WBL30110840	200	24450	4000	110	360 x 400 x 53.5	1000 W halogen



AP3K...

KUNZITE IV LED spotlight

Outdoor usage compliant with the French decree of 27 December 2018 on light pollution

Moulded aluminium / Toughened glass / Dacromet / IP66 / IK08 / Flicker-free / L80B20 > 50,000 hours

Operating temperature: -30°C to +45°C

Eligible for EPC (Energy Performance Certificate) 6-year warranty 24 hours a day

Mounting bracket Suitable for lighting building façades and around the walls

Reference	Power (W)	Luminous flux (lm)	Colour in °K	Angle (°)	Dimensions (mm)	Equivalent to
ADDAP4K030WGL5A45830	30	3200	3000	Asymmetric	247.9 x 169 x 51	50 W HPS
ADDAP4K050WGL5A45830	50	5800	3000	Asymmetric	288.3 x 204.6 x 51.8	75 W HPS
ADDAP4K080WGL5A45830	80	9800	3000	Asymmetric	364.3 x 274 x 51.8	100 W HPS
ADDAP4K100WGL5A45830	100	11600	3000	Asymmetric	364.3 x 274 x 51.8	150 W HPS
ADDAP4K150WGL5A45830	150	18300	3000	Asymmetric	394.5 x 393.5 x 56.6	200 W HPS
ADDAP4K200WGL5A45830	200	24900	3000	Asymmetric	445.5 x 392.5 x 56.8	250 W HPS
ADDAP4K250WGL5A45830	250	30500	3000	Asymmetric	497.5 x 392.5 x 58.8	400 W HPS
ADDAP4K300WGL5A45830	300	38300	3000	Asymmetric	523.5 x 545.6 x 64.8	500 W HPS



Azurite LED industrial spotlights

5-year warranty, L70B50 > 60,000 hours, IP65, IK07, -40° to +50°C, CRI > 70, cast aluminium,

Toughened glass, 90-305 VAC, 30-45-60-75-120° angle, asymmetrical or symmetrical

Reference	Power (W)	Colour (°K)	CRI (Ra)	Luminous flux (lm)	Angle (°)	Weight (kg)	W x H x D (mm)
ADDAPZ060WGL5060740E	60	4000	70	8550	60	6	327 x 367 x 91
ADDAPZ100WGL5060740E	100			14250		7	387 x 367 x 91
ADDAPZ150WGL5060740E	150			21375		7	387 x 367 x 91
ADDAPZ200WGL5060740E	200			28500		9	507 x 367 x 91
ADDAPZ300WGL5060740E	300			42750		9.8	567 x 367 x 91
ADDAPZ400WGL5060740E	400			57000		17	511 x 606 x 117
ADDAPZ800WGL5060740E	800			114000		28.4	833 x 621 x 117
ADDAPZ1200WGL5060740TB	1200			175000		29	938 x 583 x 157
ADDAPZ1500WGL5060740TB	1500			210000		32	938 x 781 x 157
ADDAPZ1800WGL5060740TB	1800			240000		40	938 x 781 x 157

Available in warm white 2200-2700-3000°K and cool white 5000°K
Other powers: 80-120-250-350-500-600-1000-1200 W



APZ



APZ...

Quartz compact industrial luminaires with glare control

5-year warranty, L70B50 > 60,000 hours, IP65, IK08, -40° to +50°C, low UGR
100-305 VAC, 80° angle, IR > 80, aluminium, dimmable 0-10 V

Reference	Power (W)	Colour (°K)	CRI (Ra)	Light (lm)	Angle (°)	Weight (kg)	Ø x length (mm)
ADDAHD100WBS30H80840S0	100	4000	80	14000	80	4	280 x 190
ADDAHD150WBS30H80840S0	150			21000		4	280 x 190
ADDAHD200WBS30H80840S0	200			28000		5	360 x 190



AHD



AHD

HF and PIR sensor kit option

ADDAHDOKITMC079D

Cool white 5000°K and 6500°K // 60° angle to order

Opaline 70 tubular LED

5-year warranty, Indoor, L70B50 > 60,000 hours, IP67, IP69K, IK10, -20° to +40°C, Satin 220-240 VAC, 120° angle, IR > 80, UV-treated polycarbonate + 304 stainless steel, connector (C) or quick connector (R)

Reference	IP	Material	Power	CRI	Light (lm)	Colour (°K)	Connection	Weight	
Indoor									
ADDABT07P06C020WF840R	IP69K	PC	20	80	2600	4000	Quick connector	1.02	ENEC
ADDABT07P12C040WF840R	IP69K	PC	40	80	5200	4000	Quick connector	1.7	ENEC
ADDABT07P15C050WF840R	IP69K	PC	50	80	6500	4000	Quick connector	2	ENEC
Outdoor									
ADDABT07M06C020WF830P	IP69K	PMMA	20	80	2600	3000	Cable gland	1.02	ENEC
ADDABT07M12C040WF830P	IP69K	PMMA	40	80	5200	3000	Cable gland	1.7	ENEC
ADDABT07M15C050WF830P	IP69K	PMMA	50	80	6500	3000	Cable gland	2	ENEC



ABT07

Collar sold separately: ADDABT07COLSS304, single collar, #304

Other finishes on request.

OPALINE LED housings

5-year warranty, L80B50 > 50,000 hours, IP66, IK10, -25° to +40°C, Through-wiring as standard
Tridonic or Osram power supply, 198-264 VAC, 120° angle, CRI > 80, stainless steel clip, PE quick connector

Reference	Length (mm)	Power (W)	CRI (Ra)	Light (lm)	Colour (°K)	Weight (kg)	W x H x D (mm)
ADDABE06O20WF840R	600	20	80	2200	4000	1.1	650 x 97 x 82
ADDABE12T36WF840R	1200	36	80	4300	4000	1.95	1220 x 97 x 82
ADDABE15T54WF840R	1500	54	80	6400	4000	2.35	1560 x 97 x 82



ABE...

Available in cool white 5000°K (ending in 50)

Lazuli LED skylight panel 600 x 600

5-year warranty, L80B50 > 54,000 hours, IP40, IK06, -25° to +50°C, UGR at 100% of the luminous flux < 18, the driver is not included. Flush-fitting, surface-mounting or suspension // Optional dimming 1-10 V and DALI

Reference	Power (W)	Colour (°K)	CRI (Ra)	Light (lm)	LED driver	Weight (kg)	W x H x D (mm)
ADDADD5959W840PSA	30	4000	82	3200	separate	3.5	595 x 595 x 10.2
ADDADD5959WKITAPP	Surface-mounting kit for ADD5959W panel, white finish						

Dimensions to order: 300 x 300 (18 W), 600 x 300 (24 W), 1200 x 300 (36 W), 1200 x 600 (50 W) // Available in warm white 3000°K

DRIVER recommended for the panel above

ADDBKPAL0400750A4	30 W 750 mA LED driver	Fixed
ADDEUP30AD1HMC0	Dimmable 30 W LED driver	1-10 V, Push Dim DALI



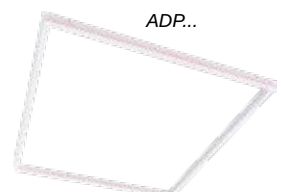
ADD...

Lazuli POP LED panel

5-year warranty, L70B50 > 35,000 hours, IP20, -20° to +40°C, UGR < 19, the driver is not included

Reference	Power (W)	Colour (°K)	CRI (Ra)	Light (lm)	LED driver	Weight (kg)	W x H x D (mm)
ADDADP5959W840SA	20	4000	82	1610	separate	0.6	587 x 587 x 12
	30			2420			
	40			3220			

Available in warm white 3000°K and cool white 5000°K



ADP...

LOTO lockout systems

Lock out to protect against the various energy sources being accidentally switched on.

Lockout is compulsory and required under French law.

Reference	Designation
BRA090844	Miniature circuit breaker lockout system
BRA149514	Miniature universal lockout system
BRA150505	SlimView Group Lock Box
BRA050943	Cable lockout system
BRA051339	Nylon lockout padlock with steel shackle, height 38 mm
BRA813594	Nylon lockout padlock with nylon shackle, height 38 mm
BRA146120	Nylon lockout padlock with cable shackle, height 200 mm
BRA806188	Electrical source lockout kit
BRA148648	Valve lockout kit (Ø76...178 mm)



BRA806188



BRA090844



BRA149514



BRA150505



BRA050943



BRA051339



BRA148648

Safety pictograms and panels

We offer over 8,000 different panels for safety, maintenance and installation identification.

Designed to withstand harsh industrial environments.

Reference	Designation
BRA828093	Electrical hazard pictogram
BRA230639	"Valid until..." calendar disk
BRA138480	PIC 900 No vaping
BRA819916	Hard hats must be worn
BRAN000671	"Butane - DANGER" pipe marker



BRA828093



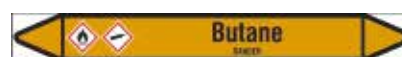
BRA230639



BRA138480



BRA819916



BRAN000671

S™3100 label and panel printer

This versatile, easy-to-use printer has an intuitive touchscreen and a very simple label design. It can be used for a wide range of industrial applications (safety panels, labels, pipe markers, Lean/5S labelling campaigns, etc.). Stand-alone or connected to the PC via the Brady Workstation software.

Reference	Designation
BRA149122	S3100 printer with AZERTY keyboard
BRA198579	S3100 printer with AZERTY keyboard + Workstation SFID (Safety Products ID) software suite
BRA149226	Brady Workstation SFID software suite - downloadable version
BRA149227	Brady Workstation SFID suite - CD version



I™3300 printer

This printer must be connected to a PC for operation.

It is the peripheral version of the S3100, with the additional possibility to create electrical identification and labelling.

Used with the Brady Workstation identification software.

Reference	Designation
BRA149554	i3300 with Wi-Fi
BRA241125	i3300 with Wi-Fi + Brady Workstation PWID software suite
BRA241119	i3300 with Wi-Fi + Brady Workstation SFIDS software suite



Alkaline batteries

Reference	IEC code	ANSI type	Pkg
PRLPC240012	LR03	AAA	10
PRLPC150012	LR06	AA	10
PRLPC140012	LR14	C	10
PRLPC130012	LR20	D	10
PRLPC160012	6LR61	9V	10
PRLPC120010	3LR	4.5V	10
ENR4LR20006	4LR25-2	6V	6



LR03



LR6



LR14



6LR61

3 V lithium batteries

Reference	IEC code
DURDL120003	CR1220
GPBCR160001	CR1616
GPBCR160002	CR1620
GPBCR200005	CR2016B
GPBCR200002	CR2025
GPBCR200006	CR2032
GPBCR240004	CR2430
GPBCR240003	CR2450
PRLPC123001	CR17345



CR1220



CR2032



CR2430



PRLPC123001

1.5 V alkaline button batteries

Other batteries on request.

Reference	IEC code
DURLR540001	LR54
DURLR040002	LR44



LR44

1.5 V lithium batteries

Other batteries on request.

Reference	IEC code
DURD3570001	SR44



SR44

12 V miniature alkaline batteries

Other batteries on request.

Reference	IEC code
DURMN210004	23A



23A

SUPRABEAM torches

Other lamps available on request.

Reference	Model	Luminous flux (lm)	Autonomy	Batteries
SUP5012011	Q1 Mini	120	1 h 30	1 x AAA
SUP5013011	Q1	160	4 h	2 x AAA
SUP5021011	Q2	200	2 h	1 x AA
SUP5031511	Q3 Classic	330	2 h 30	3 x AAA
SUP5031111	Q3	380	2 h 30	3 x AAA
SUP5035211	Q3R	1100	2 h	Rechargeable
SUP5046105	Q4XR	800	2 h	Rechargeable



Q1 mini



Q4 xr



Q2



Q3 r

SUPRABEAM head torches

Other lamps available on request.

Reference	Model	Luminous flux (lm)	Autonomy	Batteries
SUP6101011	V3AIR	340	3 h 3	3 x AAA
SUP6105211	V3 AIR Rechargeable	650	1 h 45	Rechargeable
SUP6125211	V3 PRO Rechargeable	1000	3 h	Rechargeable
SUP6135211	V4 PRO Rechargeable	1000	2 h	Rechargeable
SUP6045005	S4R	500	5 h 30	Rechargeable
SUP5266011	M6XR	2000	2 h 15	Rechargeable



V3 Air



V4 Pro r



M6XR



Multi-material fastenings for medium loads:

Solid materials.

Hollow materials (the only alternative solution to chemical fastening).

Concrete, natural stone, solid and hollow brick, cinder block, clay brick.

Equipped with a hex-head screw Cl. 8.8.

Reference	Diameter (mm)	Length (mm)	Drilling diameter (mm)	Drilling depth (mm)	Max. fastening thickness (mm)	Qty
ELE569555	M5	49	8	60	10	50
ELE569556	M6	55	10	65	10	50
ELE569571	M6	55	10	65	10	16
ELE569557	M8	58	12	70	10	50
ELE569572	M8	58	12	70	10	16
ELE569558	M10	73	15	80	15	25

**Bi-material light-duty anchors**

For solid and hollow materials, plaster panels

Reference	Diameter (mm)	Length (mm)	Drilling diameter (mm)	Drilling depth (mm)	Screw diam	Qty
ELE565539	5	30	5	40	3.5	100
ELE568286	6	35	6	45	4.0 to 5.0	100
ELE568287	8	50	8	65	4.5 to 6.0	50

**Hardware**

Reference	Designation	Dimension
ZAMT0620061001	Round head square neck bolt	M6 x 10
ZAMT0620061247		M6 x 12
ZAMT0620062001		M6 x 20
ZAMT0623081201		M8 x 12
ZAMT0623082001	Bolt	M8 x 20
ZAMT0623087001		M8 x 70
WRN6143835		M8 x 35
WRN6143860		M8 x 60
WRN6303006	Threaded rod	M6 x 1 m
WRN6303008		M8 x 1 m
WRN6453625	Threaded rod connector	M6 x 25
WRN6453830		M8 x 30
ZAMT0622060601	Hex-head toothed flange screw	M6 x 6
ZAMT0621060001	Nut with knurled flange	M6
WRN6123006	Hexagonal nut	M6
WRN6123008		M8
ZAMT0625000001	Slide nut	M8
WRN6533006	Flat washer	Ø6
WRN6533008		Ø8
ZAMT0651060001	Flat toothed lockwasher	Ø6
ZAMT0651080001		Ø8



**Rigid bell end tubes - 3-metre tubes -
class 3321**

Reference	Diameter	Qty per pack/pallet metres
ECNECTG1516B	16 mm	75 / 4500 m tube
ECNECTG1520B	20 mm	51 / 3060 m tube
ECNECTG1525B	25 mm	51 / 1836 m tube
ECNECTG1532B	32 mm	30 / 1080 m tube
ECNECTG1540B	40 mm	21 / 630 m tube
ECNECTG1550B	50 mm	15 / 450 m tube
ECNECTG1563B	63 mm	300 m tube



ECTG15* G

90° opening bends IP40

Reference	Diameter	Qty per pack/ box
ECNECCI16	16 mm	100 / 400
ECNECCI20	20 mm	100 / 300
ECNECCI25	25 mm	100 / 200
ECNECCI32	32 mm	50 / 150



ECNECCI* G

Tube fastener clips and collars

Reference	Diameter	Qty per pack/ box
ELE565958	16-32 mm	100 / 1200
ELE565961	40-63 mm	100 / 600
ELE565940	8 mm	100 / 1600
ECNECCF16	16 mm	100 / 1500
ECNECCF20	20 mm	100 / 1000
ECNECCF25	25 mm	100 / 1000
ECNECCF32	32 mm	100 / 800
ECNECCF40	40 mm	50 / 400
ECNECCF50	50 mm	25 / 250



ELE5659*

ELE565940



ECNECCF*

Opening T sleeves IP40

Reference	Diameter	Qty per pack/ box
ECNECTI16	16 mm	100 / 300
ECNECTI20	20 mm	100 / 200
ECNECTI25	25 mm	50 / 100
ECNECTI32	32 mm	50 / 100



ECNECTI* G

Britclips GAM8

Reference	Description	Qty/box
WRN52090709	E2-7 D6-9	100 units
WRN52090714	E2-7 D10-14	100pcs
WRN52090721	E2-7 D15-21	100 units
WRN52090732	E2-7 D22-32	100 units
WRN52091209	E8-12 D6-9	100 units
WRN52091214	E8-12 D10-14	100 units
WRN52091221	E8-12 D15-21	100 units
WRN52091232	E8-12 D22-32	100 units



MET415209*

Sleeves for tube IP40

Reference	Tube diameter	Length (mm)	Qty per pack/box
ECNECGI16	16 mm	50	100/2000
ECNECGI20	20 mm	55	100/1200
ECNECGI25	25 mm	60	100/700
ECNECGI32	32 mm	70	-/400
ECNECGI40	40 mm	80	-/200
ECNECGI50	50 mm	90	-/100



ECNECGI*

Cable pullers

Reference	Designation
ECNECS4-30	Cable puller diameter 4 mm L 30 m



ECNECS4-30

ICTA conduits, 3422 with cable puller, grey
 (also available in Blue, Black and Green)

Reference	Description	Qty/pallet metres
ECNECICTA16T	Corrugated tube external Ø16 mm	100/7000 m tube
ECNECICTA20T	Corrugated tube external Ø20 mm	100/5000 m tube
ECNECICTA25T	Corrugated tube external Ø25 mm	100/3600 m tube
ECNECICTA32T	Corrugated tube external Ø32 mm	50/1800 m tube
ECNECICTA40T	Corrugated tube external Ø40 mm	25/1100 m tube
ECNECICTA50T	Corrugated tube external Ø50 mm	25/800 m tube



ICTA conduit

HELLERMANN push-in wire connection terminals

Material: polycarbonate - Stainless steel claws - RoHs - Certified compliant with standards EN60998-1 and EN60998-2-2 - Glow wire test 960°C
24 A/250 V - 0.5 to 2.5 mm²

Reference	Designation	Pkg
HLR14890036	Yellow transparent terminal 2 x 0.5...2.5 mm ²	150
HLR14890037	Orange transparent terminal 3 x 0.5...2.5 mm ²	100
HLR14890038	White transparent terminal 4 x 0.5...2.5 mm ²	100
HLR14890039	Blue transparent terminal 5 x 0.5...2.5 mm ²	75
HLR14890040	Green transparent terminal 6 x 0.5...2.5 mm ²	50
HLR14890041	Black transparent terminal 8 x 0.5...2.5 mm ²	50

**WAGO push-in wire connection terminals**

Terminals with 2 to 8 conductors for flexible or rigid conductors
Max. continuous operating temperature 85°C.
Cross-sections: 0.08 to 6 mm²

Reference	Designation	Pkg
WAG2212411	Inline splicing connector with lever 2 x 0.2...4 mm ²	60
WAG221412	221 splicing connector with lever 2 x 0.14... 4 mm ²	100
WAG221413	221 splicing connector with lever 3 x 0.14... 4 mm ²	50
WAG221415	221 splicing connector with lever 5 x 0.14... 4 mm ²	25
WAG221612	221 splicing connector with lever 2 x 0.5...6 mm ²	50
WAG221613	221 splicing connector with lever 3 x 0.5...6 mm ²	30
WAG221615	221 splicing connector with lever 5 x 0.5...6 mm ²	15
WAG221500	DIN rail mounting carrier for 221 terminals - 4 mm ²	10
WAG222412	222 splicing connector with lever 2 x 0.08...4 mm ²	50
WAG222413	222 splicing connector with lever 3 x 0.08...4 mm ²	50
WAG222415	222 splicing connector with lever 5 x 0.08...4 mm ²	40
WAG2273202	Insulated transparent white splicing connector 2 x 0.5...2.5 mm ²	100
WAG2273203	Insulated transparent orange splicing connector 3 x 0.5...2.5 mm ²	100
WAG2273204	Insulated transparent red splicing connector 4 x 0.5...2.5 mm ²	100
WAG2273205	Insulated transparent yellow splicing connector 5 x 0.5...2.5 mm ²	100
WAG2273208	Insulated transparent grey splicing connector 8 x 0.5...2.5 mm ²	50
WAG224101	Lighting connector 1-2.5 mm ² (1 rigid/1 flexible)	100
WAG224112	Lighting connector 1-2.5 mm ² (2 rigid/1 flexible)	100
WAG887959	Splicing connector set with 4 compartments - selection of 255 connectors, 221 series. (x100 221412 / x100 221413 / x25 221415 / x30 221613)	



WAG2212411



WAG222415



WAG2273204



WAG221412



WAG887959

Screw connector strips - screw terminals

450 V. Glow wire test: 850°

Reference	Designation	Nominal cross-section	Rated current	Pkg
OBO2056089	12-pole connector strip, black	4 mm ²	32 A	10
OBO2056232	12-pole connector strip, black	6 mm ²	41 A	10
OBO2056380	12-pole connector strip, black	10 mm ²	57 A	10
OBO2056569	12-pole connector strip, black	16 mm ²	76 A	10
OBO2056585	12-pole connector strip, black	25 mm ²	101 A	10
OBO2056593	12-pole connector strip, black	35 mm ²	125 A	10
OBO2056070	12-pole connector strip, white	4 mm ²	32 A	10
OBO2056224	12-pole connector strip, white	6 mm ²	41 A	10
OBO2056372	12-pole connector strip, white	10 mm ²	57 A	10
OBO2056550	12-pole connector strip, white	16 mm ²	76 A	10
OBO2056577	12-pole connector strip, white	25 mm ²	101 A	10
OBO2056590	12-pole connector strip, white	35 mm ²	125 A	10



Emergency exit signs

Autonomy 1 hour – Integrated automatic self-test technology
 Ranges sold with the regulatory evacuation labels.



Reference	Designation	Functions	Luminous flux (lm)	IP/IK
KAU103111K	PRIMEVO 60L A	Evacuation	45	42/10
KAU103161K	PRIMEVO ET 60L A	Waterproof evacuation	45	65/10
KAU226220K	PRIMO3 60L A	Evacuation	45	42/07
KAU226221K	PRIMO3 ET 60L A	Waterproof evacuation	45	65/10
KAU226701	BRIO+ 60L A	Evacuation	45	42/07
KAU226703	BRIO+ ET 60L A	Waterproof evacuation	45	65/10
KAU236220K	PRIMO3 400L A	Emergency lighting	390	42/07
KAU236701L	BRIO+ 400L A	Emergency lighting	400	42/07
KAU611110K	PRIMO3 BACF	Waterproof evacuation - For cold store (-40°C)	45	65/10



KAU103111K (PRIMEVO)



KAU226220K (PRIMO3)



KAU226701 (BRIO+)

Spotlight emergency lighting

Autonomy 1 hour – Integrated automatic self-test technology

ALTILED range: various installation options (walls, ceilings, pillars, cable trays, suspended, flush-mounted, etc.)

Reference	Designation	Functions	Luminous flux (lm)	IP/IK
KAU226410	DUO ET 3000I A	Evacuation / Waterproof emergency lighting	2200	55/08
KAU226500	ALTILED ET 1000L A	Evacuation / Waterproof emergency lighting	1000	65/08
KAU650000	ALTILED plate for installation on RSJ, pillars or to combine suspended emergency lighting units			



KAU226410



KAU226500



Tubular emergency lighting and exit signs

Integrated automatic self-test technology

INDULUX range: 304L stainless steel - Standby function with light rings - Sold with the regulatory labels for evacuation.

Reference	Designation	Functions	Luminous flux (lm)	IP/IK
KAU102111K	INDULUX ET 60LP A	Waterproof evacuation (3 hours)	200	68/10
KAU102121K	INDULUX ET 400L A	Waterproof emergency lighting (1 hour)	400	68/10
KAU226450	INDUXEL EX ET 60 LA - ATEX (1/2/21/22)	Evacuation (1 hour)	-	65/04
KAU227450	INDUXEL EX ET 400 LA - ATEX (1/2/21/22)	Emergency lighting	-	65/04



KAU102111K



KAU102121K



ATEX

Accessories

Reference	Designation	Functions
KAU621201	BT 12V	Standard remote control - Up to 500 units
KAU621500	BT 5F	Multi-brand remote control - Integrated automatic self-test function - Up to 500 units
KAU642015	PRIMEVO - PRIMO3 grille	Zinc-plated protection grille IK 10
KAU660020	BRIO+ grille	Zinc-plated protection grille IK 10
KAU612100	EDF 100L	Portable standalone light unit - 45 lm / 100 lm - 3 hours / 1 hour



KAU621201



KAU621500



KAU642015

44 CE range - Junction boxes with direct-entry cable glands

Available in 3 versions: 650°C or 960°C - Grey RAL 7035 and 960°C - Red RAL 3000

GWPLAST halogen-free technopolymer for 650°C version - Impact resistance: IK08 (IK07 for clip-on lid)

Insulation: Class II - Installation temperature: -25°C to +60°C

Internal dimensions (mm)	650°C reference - Grey	960°C reference - Grey	960°C reference - Red	Lid fastening	Nbr. inputs x max. Ø	Protection rating
Ø65 x 35	GEWGW44001	GEWGW44051	GEWGW44051R	Clip-on	4 x 20 mm	IP44
Ø80 x 40	GEWGW44002	GEWGW44052		Clip-on	4 x 20 mm	IP44
80 x 80 x 40	GEWGW44003	GEWGW44053	GEWGW44053R	Clip-on	6 x 20 mm	IP44
100 x 100 x 50	GEWGW44024	GEWGW44054	GEWGW44054R	1/4 turn screw	6 x 25 mm	IP55
120 x 80 x 50	GEWGW44005	GEWGW44055		Stainless steel screw	6 x 25 mm	IP55
150 x 110 x 70	GEWGW44026	GEWGW44056	GEWGW44056R	1/4 turn screw	10 x 25 mm	IP55
190 x 140 x 70	GEWGW44007	GEWGW44057		Hinge screw	10 x 32 mm	IP55
240 x 190 x 90	GEWGW44008	GEWGW44058		Hinge screw	12 x 32 mm	IP55
300 x 220 x 120	GEWGW44009	GEWGW44059		Hinge screw	12 x 40 mm	IP55
380 x 300 x 120	GEWGW44010	GEWGW44060		Hinge screw	12 x 40 mm	IP55
460 x 380 x 120	GEWGW44011	GEWGW44061		Hinge screw	14 x 40 mm	IP55

GEWGW44001



GEWGW44051R

GEWGW44024



GEWGW44054R



GEWGW44007

44 CE range - Junction boxes with smooth sides - Low lid

GWPLAST halogen-free technopolymer for 650°C version - Impact resistance: IK08

Insulation: Class II - Installation temperature: -25°C to +60°C - Accessory: galvanised steel backplate

Available in 3 versions: with opaque lid for 650°C or 960°C Grey RAL 7035 and transparent lid for 650°C

Internal dimensions (mm)	Opaque reference-650°C	Opaque reference-960°C	Transparent reference	Backplate reference	Lid fastening	Protection rating
100 x 100 x 50	GEWGW44234				1/4 turn screw	IP56
	GEWGW44204	GEWGW44274			Stainless steel screw	IP56
120 x 80 x 50	GEWGW44205	GEWGW44275			Stainless steel screw	IP56
150 x 110 x 70	GEWGW44236				1/4 turn screw	IP56
	GEWGW44206	GEWGW44276	GEWGW44426		Stainless steel screw	IP56
190 x 140 x 70	GEWGW44207	GEWGW44277	GEWGW44427	GEWGW44615	Hinge screw	IP56
240 x 190 x 90	GEWGW44208	GEWGW44278	GEWGW44428	GEWGW44616	Hinge screw	IP56
300 x 220 x 120	GEWGW44209	GEWGW44279	GEWGW44429	GEWGW44617	Hinge screw	IP56
380 x 300 x 120	GEWGW44210	GEWGW44280	GEWGW44430	GEWGW44618	Hinge screw	IP56
460 x 380 x 120	GEWGW44211	GEWGW44281	GEWGW44431	GEWGW44619	Hinge screw	IP56

GEWGW44234



GEWGW44207

GEWGW44615

44 CE range - Junction boxes with smooth sides - High lid

GWPLAST halogen-free technopolymer for 650°C version - Impact resistance: IK08

Insulation: Class II - Installation temperature: -25°C to +60°C - Accessory: galvanised steel backplate

Available in 3 versions: with opaque lid for 650°C or 960°C Grey RAL 7035 and transparent lid for 650°C

Internal dimensions (mm)	Opaque reference-650°C	Opaque reference-960°C	Transparent reference	Backplate reference	Lid fastening	Protection rating
100 x 100 x 120	GEWGW44214	GEWGW44254			Stainless steel screw	IP56
120 x 80 x 120	GEWGW44215	GEWGW44255			Stainless steel screw	IP56
150 x 110 x 140	GEWGW44216	GEWGW44256	GEWGW44436		Stainless steel screw	IP56
190 x 140 x 140	GEWGW44217	GEWGW44257	GEWGW44437	GEWGW44615	Hinge screw	IP56
240 x 190 x 160	GEWGW44218	GEWGW44258	GEWGW44438	GEWGW44616	Hinge screw	IP56
300 x 220 x 180	GEWGW44219	GEWGW44259	GEWGW44439	GEWGW44617	Hinge screw	IP56
380 x 300 x 180	GEWGW44220	GEWGW44260	GEWGW44440	GEWGW44618	Hinge screw	IP56
460 x 380 x 180	GEWGW44221	GEWGW44261	GEWGW44441	GEWGW44619	Hinge screw	IP56

GEWGW44437



GEWGW44217

GEWGW44615



GEWGW76261

GEWGW76281



GEWGW76272

76 CO range - Aluminium boxes

Available in 3 versions: grey metallic paint; unpainted; box for ATEX zone 2(G) - zone 22(D)

Installation temperature: -25°C to +60°C - Accessory: galvanised steel backplate

Internal dimensions (mm)	Painted reference	Unpainted reference	ATEX reference	Backplate reference	Protection rating	Impact resistance
91 x 91 x 54	GEWGW76261	GEWGW76281	GEWGW76291		IP66	IK08
128 x 103 x 57	GEWGW76262	GEWGW76282	GEWGW76292	GEWGW76272	IP66	IK08
155 x 130 x 58	GEWGW76263	GEWGW76283	GEWGW76293	GEWGW76273	IP66	IK09
178 x 156 x 75	GEWGW76264	GEWGW76284	GEWGW76294	GEWGW76274	IP66	IK09
239 x 202 x 85	GEWGW76265	GEWGW76285	GEWGW76295	GEWGW76275	IP66	IK10
294 x 244 x 114	GEWGW76266	GEWGW76286	GEWGW76296	GEWGW76276	IP66	IK10
392 x 298 x 144	GEWGW76267	GEWGW76287		GEWGW76277	IP55	IK08

46 QP range - Polyester enclosures with blank door - IP66

Glass-fibre reinforced polyester - Grey RAL 7035 - Impact resistance: IK10 - Temp: -25°C to +60°C.

Insulation: Class II - Glow wire test: GWT 960°C - Halogen-free.

Fast & Easy system: quick installation of accessories by snap-on fastenings and 1/4 turn screws.

Other versions: transparent door; 46 QM metal enclosures; 46 QX stainless steel enclosures.

New**Fast & Easy**
40%

Number of modules	External dimensions W x H x D (mm)	Reference	Solid backplate	Perforated backplate	Front panel with DIN rail	Blank front panel	Pair of uprights
							
		GEWGW46004	GEWGW46401	GEWGW46464	GEWGW46421F	GEWGW46426F	GEWGW46437F
-	250 x 300 x 160	GEWGW46001F	GEWGW46401	GEWGW46461	-	-	-
36 (12 x 3)	310 x 425 x 160	GEWGW46002F	GEWGW46402	GEWGW46462	GEWGW46420F	GEWGW46425F	GEWGW46435F
54 (18 x 3)	405 x 500 x 200	GEWGW46003F	GEWGW46403	GEWGW46463	GEWGW46421F	GEWGW46426F	GEWGW46436F
72 (18 x 4)	405 x 650 x 200	GEWGW46004F	GEWGW46404	GEWGW46464	GEWGW46421F	GEWGW46426F	GEWGW46437F
96 (24 x 4)	515 x 650 x 250	GEWGW46005F	GEWGW46405	GEWGW46465	GEWGW46422F	GEWGW46427F	GEWGW46437F
140 (28 x 5)	585 x 800 x 300	GEWGW46006F	GEWGW46406	GEWGW46466	GEWGW46423F	GEWGW46428F	GEWGW46438F
180 (36 x 5)	800 x 1060 x 350	GEWGW46007F	GEWGW46407	GEWGW46467	GEWGW46424F	GEWGW46429F	GEWGW46439F

* mounting brackets attach directly to the sides of the enclosure without the use of uprights

40 CDK range - Modular enclosures with smoked transparent door - IP65

Grey RAL 7035 - Impact resistance: IK09 - Installation temperature: -25°C to +60°C

Removable front panels and extractable frame on enclosures with 2, 3 and 4 rows.

2 finishes: smooth sides - GWT 650°C; interchangeable panels with cable entries - GWT 750°C

Number of modules	External dimensions W x H x D (mm)	Smooth sides reference	Cable entry reference*	Earth terminal block	Fastening brackets	Lock with key
						
		GEWGW40101	GEWGW40124	GEWGW40412U	GEWGW44621	GEWGW40422
4	143 x 210 x 100	GEWGW40101	-	-	4xGEWGW44621	1xGEWGW40422
8	215 x 210 x 100	GEWGW40102	-	GEWGW40408U		
12	298 x 260 x 140	GEWGW40103	GEWGW40123	GEWGW40412U		
18	410 x 285 x 140	GEWGW40106	-	GEWGW40418U		
24 (12 x 2)	298 x 420 x 140	GEWGW40104	GEWGW40124	2xGEWGW40412U		2xGEWGW40422
36 (12 x 3)	298 x 570 x 140	GEWGW40105	GEWGW40125	2xGEWGW40412U		1xGEWGW40422
36 (18 x 2)	410 x 463 x 140	GEWGW40107	-	2xGEWGW40418U		2xGEWGW40422
54 (18 x 3)	410 x 655 x 140	GEWGW40108	-	2xGEWGW40418U		
72 (18 x 4)	410 x 878 x 160	GEWGW40109	-	2xGEWGW40418U		

* Enclosure supplied with N+E terminal block

40 CD range - Modular enclosures with transparent window - IP55

Grey RAL 7035 - Impact resistance: IK09 - Installation temperature: -25°C to +60°C. Walls with drilling points.

Number of modules	External dimensions W x H x D (mm)	Reference without terminal block	Earth terminal block	Fastening brackets
				
		GEWGW40001	GEWGW40412U	GEWGW44621
4	105 x 170 x 98	GEWGW40001	-	4xGEWGW44621
8	180 x 180 x 98	GEWGW40003	GEWGW40408U	
12	250 x 250 x 135	GEWGW40005	GEWGW40412U	
24 (12 x 2)	250 x 375 x 135	GEWGW40007	2xGEWGW40408U	
36 (18 x 2)	376 x 400 x 135	GEWGW40009	2xGEWGW40412U	

Cable reels

IP44 cable reel made of insulating material with 3 16 A NF sockets

Reference	Designation	Drum Ø (mm)
MENAS810128	25 m of cable RNF3G1.5	230
MENAS810129	40 m of cable RNF3G1.5	285
MENAS810132	25 m of cable RNF3G2.5	285
MENAS820124	40 m of cable RNF3G2.5	320



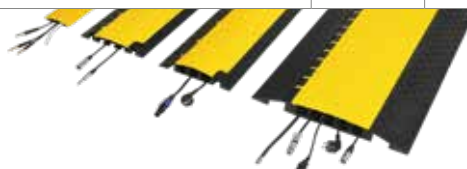
MENAS...

Cable protectors

Flammability rating	Material	Hardness	Temperature	Size
B1 or B2	PU (Polyurethane)	88 Shore +- 4A	-30°C to + 60°C	Different lengths and widths on request

Drawing	Reference	Designation	Nbr channels	Size (cm)	Weight (kg)	Load*
	MENDEF85150	NANO CABLE PROTECTOR	6	100 cm x 28 cm x 3.2	4.37	2 T
	MENDEF85200	MINI CABLE PROTECTOR 3 Channels	3	100 cm x 29 cm x 4.8	5	2 T
	MENDEF85300	MIDI CABLE PROTECTOR 5 Channels	5	89 cm x 54.2 cm x 5.2	11.5	5 T
	MENDEF85500	XXL CABLE PROTECTOR 5	5	70 cm x 69.6 cm x 8.7	21.4	6 T
	MENDEF85002	CABLE PROTECTOR III	3	100 cm x 60 cm x 7.3	22	5 T
	MENDEF85600	ULTRA L CABLE PROTECTOR	2	70 cm x 78.3 cm x 13.9	30.5	6 T

* Load for a surface area of 20 cm x 20 cm



Power and multimedia strips

Reference	Designation
EBE012710	3-socket power strip without switch
EBE012712	4-socket power strip without switch
EBE012715	5-socket power strip with switch
EBE012718	6-socket power strip with switch
EBE012730	Surge protector sockets
EBE012740	6-socket surge protector power strip with switch
EBE012742	6-socket surge protector power strip with switch + RJ45



EBE012710



EBE012712



EBE012715



EBE012718



EBE012730



EBE012740



EBE012742

Compliant with the following standards:

IEC 60598-1 IEC 60598-2-2 IEC 62471- photobiological safety.

Koursk - Tubular LED

CRI 80, IP69K, IK10, 4000 K, -20°...+35°C

L80B50, 5-year warranty

Reference	Designation	lm	Power
ELT301078	KOURSK II 70 TUB LED OP	2150	18 W
ELT301084	KOURSK II 70 TUB LED OP	4200	35 W
ELT301092	KOURSK II 70 TUB LED OP	5250	43 W
ELT301044	KOURSK II 90 TUB LED OP	6200	44 W
ELT301059	KOURSK II 90 TUB LED OP	8200	58 W



KOURSK LED

Drakkar - LED lighting strip

CRI 80, IP66, IK10, 4000 K, -25°...+35°C

L80B50, 5-year warranty

Reference	Designation	lm	Power
ELT300624	DRAKKAR II WATERPROOF LED GR	5000	36 W
ELT300637	DRAKKAR II WATERPROOF LED GE	6000	43 W
ELT300651	DRAKKAR II WATERPROOF LED GR	8000	55 W



DRAKKAR

Calypso - LED lighting strip

CRI 80, IP66, IK10, Aluminium, 4000 K, -20°...+35°C

L80B50, 5-year warranty

Reference	Designation	lm	Power
ELT301183	CALYPSO WATERPROOF LED NR	4340	28 W
ELT301192	CALYPSO WATERPROOF LED NR	7440	48 W



CALYPSO

Gigaled - Industrial suspended LED lighting

CRI 70, IP65, 110°, IK10, 5000 K, -40°...+45°C

L80B50, 7-year warranty

Reference	Designation	lm	Power
ELT300804	GIGALED II INDUS LUMINAIRE GR	20000	150 W
ELT300809	GIGALED II INDUS LUMINAIRE GR	27000	200 W
ELT300822	GIGALED II INDUS LUMINAIRE GR	54000	400 W



GIGALED

Goldo - Industrial suspended LED lighting

CRI 80, IP65, 120°, IK10, 5000 K, -35°...+35°C

L80B70, 5-year warranty

Reference	Designation	lm	Power
ELT300866	GOLDO II LED INDUS LUMINAIRE	15000	100 W
ELT300872	GOLDO II LED INDUS LUMINAIRE	22500	150 W
ELT300877	GOLDO II LED INDUS LUMINAIRE	30000	200 W



GOLDO

Sirius - LED spotlight

CRI 80, IP66,+ PRORAD, 4000 K, -25°...+45°C

L80B10, 5-year warranty

Reference	Designation	lm	Power
ELT301511	LED NR spotlight	3600	30 W
ELT301517	LED NR spotlight	6000	50 W
ELT301523	LED NR spotlight	9600	80 W
ELT301527	LED NR spotlight	12000	100 W
ELT301531	LED NR spotlight	18000	150 W
ELT301535	LED NR spotlight	24000	200 W



ELTSIR100-840

Wire cable trays

Width	Reference			Cover reference
	Height 30 mm	Height 60 mm	Height 100 mm	
60	VALEC30060EZ	VALEC60060EZ*		VALT060SG (*)
100	VALEC30100EZ	VALEC60100EZ		VALT100SG
150	VALEC30150EZ	VALEC60150EZ		VALT150SG
200	VALEC30200EZ	VALEC60200EZ	VALEC100200EZ	VALT200SG
300	VALEC30300EZ	VALEC60300EZ	VALEC100300EZ	VALT300SG
400		VALEC60400EZ	VALEC100400EZ	VALT400SG
500		VALEC60500EZ	VALEC100500EZ	VALT500SG
600		VALEC60600EZ	VALEC100600EZ	VALT600SG

Dividers	VALSEP30SG	VALSEP60SG	VALSEP100SG
Clip	VALCSEPSG		

* Available in 6 wires
Available in hot-dip galvanised (HDG) and stainless steel (IN) versions.
Other finishes or dimensions on request.
Cover; mounted without accessories.

(*) only for height 60

ALSO AVAILABLE IN STAINLESS
STEEL AND HOT-DIP
GALVANISED VERSIONS



VALSEP**SG



VALCSEPSG

Connectors

Reference	Designation	Qty per pack/box
VALUUEZ	Universal joint for wire cable tray	100
VALCPUZF	Counter plate 30 x 20	100
VALMCLICZF39	Connector clip for wire cable tray H30 width 50 to 200 H60 width 60 to 200	100
VALMCLICZF43	Connector clip for wire cable tray H60 width 300 to 400 H100 width 200 to 300	100
VALMCLICZF48	Connector clip for wire cable tray H60 width 500 to 600 H100 width 400 to 600	100



VALUUEZ



VALCPUZF



VALMCLIC** assembly

Accessories

Reference	Designation	Qty per pack/box
VALSC**EZ	M6, M8, M10 central suspension for wire cable trays	50
VALFASEZ	Accessory assembly splice plate	100
CUIVRE-NU-16-C100	16 mm ² bare copper reel	50
CUIVRE-NU-16-C050	16 mm ² bare copper reel	50
CUIVRE-NU-25-C050	25 mm ² bare copper reel	50
CUIVRE-NU-35	35 mm ² bare copper reel	50
MEC7601001	Claw connector for diameters 4 to 30 mm	50
MEC7341980	FCLIP6-35 Equipotential clip 16 to 35 mm ²	40



VALSC**EZ



MEC7341980



VALFASEZ



MEC7601001

EASY CONNECT

Click and go!



Perforated cable trays

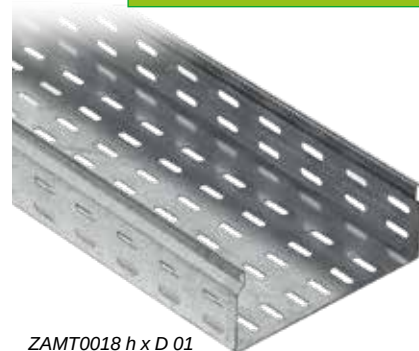
Sendzimir finish*

Width (mm)	Reference		
	Height 50 mm	Height 75 mm	Height 100 mm
50	ZAMT0018050501	-	-
75	ZAMT0018050701	ZAMT0018070701	-
100	ZAMT0018051001	ZAMT0018071001	ZAMT0018101001
150	ZAMT0018051501	ZAMT0018071501	ZAMT0018101501
200	ZAMT0018052001	ZAMT0018072001	ZAMT0018102001
300	ZAMT0018053001	ZAMT0018073001	ZAMT0018103001
400	ZAMT0018054001	ZAMT0018074001	ZAMT0018104001
500	ZAMT0018055001	ZAMT0018075001	ZAMT0018105001
600	ZAMT0018056001	ZAMT0018076001	ZAMT0018106001

* Other treatments or finishes: Contact us



ALSO AVAILABLE IN STAINLESS
STEEL AND HOT-DIP
GALVANISED VERSIONS



ZAMT0018 h x D 01

Accessories

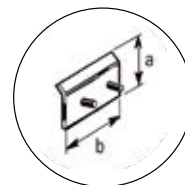
Splice plate with fixed threaded pins*

Reference	Height	a	b
ZAMT0200000501	50 mm	35	52

* Delivered with nut

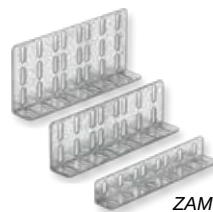


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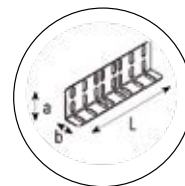


Outside/inside angle splice plates

Reference	Height	a	b	W
ZAMT0212000501	50 mm	27	28.5	180
ZAMT0212000701	75 mm	54	28.5	180
ZAMT0212001001	100 mm	77	28.5	180



ZAMT021200...



Equipotential bonding continuity

Reference	Designation	Qty per pack/ box
MEC7341038	Brass cable clamp for Ø4 to 8 mm	50
MEC7341981	T'CLIP16-35	40



MEC7341038



MEC7341981

ZT: Metal trunking



ZT Stainless steel:
Stainless steel metal trunking



ZM: Metal trunking
for heavy loads

ZS: Cable ladders



ZC: Mini metal
trunking

ZU: Reinforced cable tray
(Length 6 m)



ZH: Mini square mesh
wire cable trays

Omega brackets

Reference	For cable tray. Width (mm)	Bracket length (mm)	Total length (mm)
VALSOC10SG	100	145	170
VALSOC15SG	150	195	220
VALSOC20SG	200	245	270
VALSOC30SG	300	345	370
"C" Omega bracket			
VALSOPC10SG	100	145	170
VALSOPC15SG	150	195	220
VALSOPC20SG	200	245	270
VALSOPC30SG	300	345	370



VALSOC..SG



VALSOPC..SG

Brackets

Reference	For cable tray. Width (mm)	Length (mm)	Load (N)
VALSOA10SG	100	250	
VALSOA15SG	150	300	
VALSOA20SG	200	350	
VALSOA30SG	300	450	
VALSOA40SG	400	550	
VALSOA50SG	500	650	
VALSOA60SG	600	750	
Clip-on bracket			
VALSE100SG	100	140	1000
VALSE150SG	150	190	1000
VALSE200SG	200	240	1000
VALSE300SG	300	340	1000
VALSE400SG	400	440	1000
VALSE500SG	500	540	1500
VALSE600SG	600	640	1500



VALSOA....SG



VALSE....SG



VALSESG

Bracket for height 60 mm

Reference
VALSESG

STRUT brackets

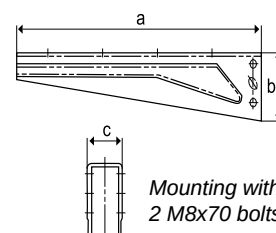
Reference	Designation	Dimension
WRN6603831	STRUT wall bracket 41X21 PERF EZ	Cross-section 41x21 - Length 200 mm
WRN6603832	STRUT wall bracket 41X21 PERF EZ	Cross-section 41x21 - Length 300 mm
WRN6603861	STRUT wall bracket 41X41 PERF EZ	Cross-section 41x41 - Length 150 mm
WRN6603862	STRUT wall bracket 41X41 PERF EZ	Cross-section 41x41 - Length 300 mm
WRN6603863	STRUT wall bracket 41X41 PERF EZ	Cross-section 41x41 - Length 450 mm
WRN6603864	STRUT wall bracket 41X41 PERF EZ	Cross-section 41x41 - Length 600 mm
WRN6603865	STRUT wall bracket 41X41 PERF EZ	Cross-section 41x41 - Length 750 mm



WRN66038..

Brackets for profiles for high loads

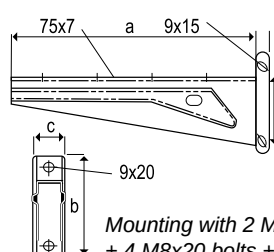
For cable tray. Width (mm)	Reference	a	b	c
150	ZAMT0320001501	190	90	48
200	ZAMT0320002001	240	90	48
300	ZAMT0320003001	340	90	48
400	ZAMT0320004001	440	90	48
500	ZAMT0320005001	540	90	48
600	ZAMT0320006001	640	90	48



T032000...

Mounting with 4 M8x20 bolts + 4 M8 nuts or
2 M8x70 bolts + 2 x M8 nuts

For cable tray. Width (mm)	Reference	a	b	c	d
150	ZAMT0330001501	190	190	48	32
200	ZAMT0330002001	240	190	48	32
300	ZAMT0330003001	340	190	48	32
400	ZAMT0330004001	440	190	48	32
500	ZAMT0330005001	540	190	48	32
600	ZAMT0330006001	640	190	48	32



T033000...

Mounting with 2 M8x20 bolts
+ 4 M8x20 bolts + 6 M8 nuts

Ceiling hanger

Reference

VALOHC060SG
VALOHC100SG
VALOHC150SG



Cable protection for bends

Reference

VALCPBSG



Spacer brackets

Reference

VALSD60SG
VALSD100SG
VALSD150SG
VALSD200SG
VALSD300SG



Omega linear bracket

Reference

VALSOAL1SG - 1 M
VALSOAL2SG - 2 M
VALSOAL3SG - 3 M



Conduit bracket

Reference

VALSTSG



Quick-fit connector

Reference

VALURSG



Accessory brackets

Reference

VALPS30SG
VALPS60SG



VALPS30SG

VALPS60SG

Brackets for junction boxes

Reference

VALDB30SG
VALDB100SG



VALDB30SG

VALDB100SG

Cable drop-out plate

Reference

VALSCSG



VALSCSG

Bracket for height 60 mm

Reference

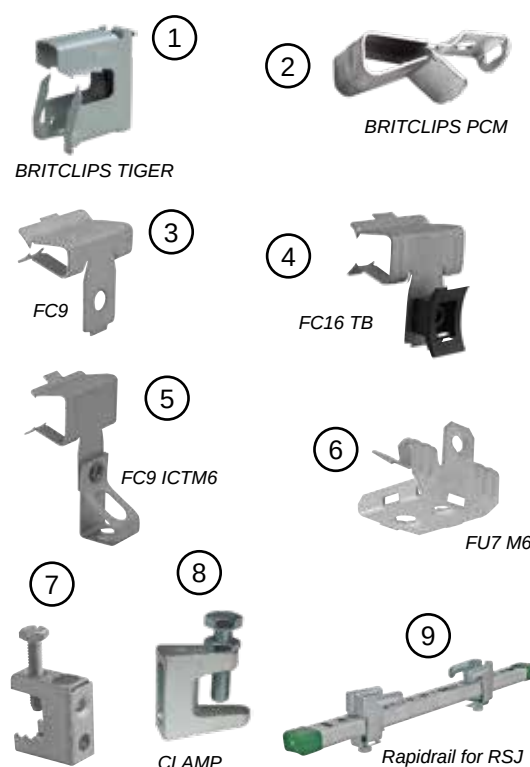
VALSESG



VALSESG

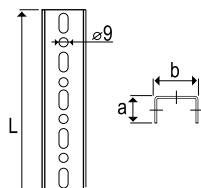
Fastening systems

	Reference	Designation	Dimension
1	WRN51805208	BRITCLIPS TIGER	-
	WRN51805216	BRITCLIPS TIGER 8/16	-
2	WRN52350010	BRITCLIPS PCM MULTI 3-10	-
	WRN52350018	BRITCLIPS PCM MULTI 10-18	-
3	WRN50020009	FC9	5 - 9 mm
	WRN50020016	FC16	10 - 16 mm
	WRN50020020	FC20	17 - 20 mm
4	WRN50320009	FC9 TB	5 - 9 mm
	WRN50320016	FC16 TB	8-14 mm
	WRN50320020	FC20 TB	17 - 20 mm
5	WRN50420609	FC9 ICTM6	5 - 9 mm
	WRN50420616	FC16 ICTM6	10 - 16 mm
6	WRN51420607	FU7 M6	3.0 - 7.0 mm
	WRN51420613	FU12.5 M6	8.0 - 12.5 mm
	WRN51420620	FU20 M6	14.0 - 20.0 mm
7	WRN53421117	SB17 11	Ø11 mm
8	WRN6003006	Model C clamp	M6
	WRN6003008		M8
9	WRN6070200	Rapidrail WM0 for RSJ up to 12 mm	200 mm
	WRN6070300		300 mm
	WRN6070400		400 mm
	WRN6071600	Rapidrail WM1 for RSJ up to 20 mm	600 mm



Profiles for high loads

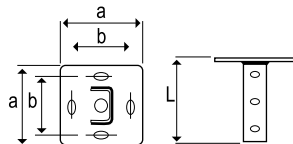
Reference	a	b	c
ZAMT0042200001	35	55	2000



T0 042 2000 01

Hot-dip galvanised single ceiling brackets

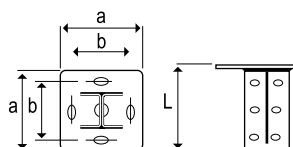
Reference	a	b	W
ZAMT0301000003	150	110	153



T0301000003

Hot-dip galvanised double ceiling brackets

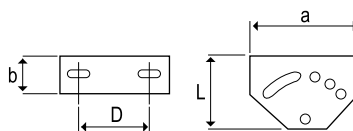
Reference	a	b	W
ZAMT0302000003	150	110	153



T0302000003

Variable angle ceiling brackets

Reference	a	b	c	D
ZAMT0304000001	150	60	100	100



T0304000001

Strut rails

Reference	Designation	Dimension
WRN6505224	STRUT RAIL 2 m GS PERF 1.5 mm	41 x 21 x 1.5 mm length 2 m
WRN6505324	STRUT RAIL 3 m GS PERF 1.5 mm	41 x 21 x 1.5 mm length 3 m
WRN6505225	STRUT RAIL 2 m GS PERF 2.5 mm	41 x 21 x 2.5 mm length 2 m
WRN6505325	STRUT RAIL 3 m GS PERF 2.5 mm	41 x 21 x 2.5 mm length 3 m
WRN6505244	STRUT RAIL 2 m GS PERF 1.5 mm	41 x 41 x 1.5 mm length 2 m
WRN6505344	STRUT RAIL 3 m GS PERF 1.5 mm	41 x 41 x 1.5 mm length 3 m
WRN6505245	STRUT RAIL 2 m GS PERF 2.5 mm	41 x 41 x 2.5 mm length 2 m
WRN6505345	STRUT RAIL 3 m GS PERF 2.5 mm	41 x 41 x 2.5 mm length 3 m



WRN6505..

Rail clamps

Reference
WRN6585014

WRN6585014



Slide nuts

Reference	Designation	Dimension
WRN6517008	Strut slide nut without spring	M8
WRN6517010	Strut slide nut without spring	M10
WRN665185108	RapidStrut slide nut	M8



WRN65170..



WRN6651..

Double nuts

Reference	Designation	Dimension
WRN6527934	Double strut nut without spring	M8 x 40
WRN6527944	Double strut nut without spring	M10 x 40



WRN6527..

End caps

Reference	Designation	Dimension
WRN6566041	PVC STRUT end cap	41 x 41
WRN6566021	PVC STRUT end cap	41 x 21



WRN65660..

304 stainless steel pipes without thread

Designation	304 SS	Pkg
S16 stainless steel pipe - non-threaded	OBO2046720	30
S20 stainless steel pipe - non-threaded	OBO2046721	30
S25 stainless steel pipe - non-threaded	OBO2046722	30
S32 stainless steel pipe - non-threaded	OBO2046723	21
S40 stainless steel pipe - non-threaded	OBO2046724	15
S50 stainless steel pipe - non-threaded	OBO2046725	15
S63 stainless steel pipe - non-threaded	OBO2046726	9

Also available in 316 stainless steel.



316 stainless steel 90° bends without thread

Designation	316 SS	Pkg
SB16 stainless steel 90° bend - non-threaded	OBO2046760	5
SB20 stainless steel 90° bend - non-threaded	OBO2046761	10
SB25 stainless steel 90° bend - non-threaded	OBO2046762	10
SB32 stainless steel 90° bend - non-threaded	OBO2046763	10
SB40 stainless steel 90° bend - non-threaded	OBO2046764	5
SB50 stainless steel 90° bend - non-threaded	OBO2046765	5
SB63 stainless steel 90° bend - non-threaded	OBO2046766	3



316 stainless steel sleeves without thread

Designation	316 SS	Pkg
SV16 stainless steel sleeve - non-threaded	OBO2046770	10
SV20 stainless steel sleeve - non-threaded	OBO2046771	15
SV25 stainless steel sleeve - non-threaded	OBO2046772	15
SV32 stainless steel sleeve - non-threaded	OBO2046773	15
SV40 stainless steel sleeve - non-threaded	OBO2046774	10
SV50 stainless steel sleeve - non-threaded	OBO2046775	5
SV63 stainless steel sleeve - non-threaded	OBO2046776	3



Other accessories available. Contact us.



GR MAGIC wire cable trays height 55 mm

Standard range, length 3 metres

	CE	HDG	304 SS
Designation	Item No.	Item No.	Item No.
Obofil GR Magic 55 x 050 mm	OBO6001441	OBO6001415	OBO6001070
Obofil GR Magic 55 x 100 mm	OBO6001442	OBO6001416	OBO6001072
Obofil GR Magic 55 x 150 mm	OBO6001444	OBO6001418	OBO6001074
Obofil GR Magic 55 x 200 mm	OBO6001446	OBO6001420	OBO6001076
Obofil GR Magic 55 x 300 mm	OBO6001448	OBO6001424	OBO6001078
Obofil GR Magic 55 x 400 mm	OBO6001450	OBO6001428	OBO6001080
Obofil GR Magic 55 x 500 mm	OBO6001452	OBO6001432	OBO6001082
Obofil GR Magic 55 x 600 mm	OBO6001454	OBO6001436	OBO6001085

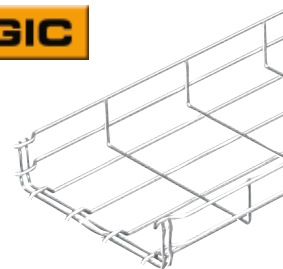
GR Magic can be ordered in 316 stainless steel on request.

Available in heights 35 mm and 105 mm

Finishes: CE (Continuous electrogalvanisation)

Z275 (Continuous hot-dip galvanisation) - HDG (Hot-dip galvanisation after manufacturing)

GRMAGIC



- 1 - Adjust
- 2 - Snap together
- 3 - Done!

AWG wall brackets: maximum load 150 kg

	HDG	304 SS
Designation	Item No.	Item No.
AWG wall brackets with lugs 15/100 mm	OBO6420606	OBO6420625
AWG wall brackets with lugs 15/150 mm	OBO6420607	
AWG wall brackets with lugs 15/200 mm	OBO6420608	OBO6420628
AWG wall brackets with lugs 15/300 mm	OBO6420610	OBO6420631
AWG wall brackets with lugs 15/400 mm	OBO6420612	OBO6420634
AWG wall brackets with lugs 15/500 mm	OBO6420614	OBO6420637
AWG wall brackets with lugs 15/600 mm	OBO6420616	OBO6420640



TPSAG hanger brackets

	Z275	HDG	304 SS
Designation	Item No.	Item No.	Item No.
TPSAG bracket with lugs 100 mm	OBO6366015	OBO6366131	OBO6366145
TPSAG bracket with lugs 150 mm	OBO6366023	OBO6366135	OBO6366146
TPSAG bracket with lugs 200 mm	OBO6366031	OBO6366139	OBO6366148
TPSAG bracket with lugs 300 mm	OBO6366066	OBO6366143	OBO6366149



TPDG "C" ceiling bracket - Height 175 mm

	Z275	HDG
Designation	Item No.	Item No.
TPDG "C" bracket with lugs 100 mm	OBO6365906	OBO6365977
TPDG "C" bracket with lugs 150 mm	OBO6365914	
TPDG "C" bracket with lugs 200 mm	OBO6365922	OBO6365981
TPDG "C" bracket with lugs 300 mm	OBO6365949	OBO6365985



Quick screwless mounting of wire cable trays

All other accessories and hardware on request

RKS MAGIC perforated cable trays height 60 mm

Length 3.050 metres

RKSMAGIC

	Z275	HDG	304 SS
Designation	Item No.	Item No.	Item No.
RKS MAGIC perforated cable tray 60 x 100 mm (th. 0.75)	OBO6047611	OBO6047612	OBO6047613
RKS MAGIC perforated cable tray 60 x 150 mm (th. 0.75)	OBO6047630	OBO6047631	OBO6047632
RKS MAGIC perforated cable tray 60 x 200 mm (th. 0.75)	OBO6047638	OBO6047639	OBO6047640
RKS MAGIC perforated cable tray 60 x 300 mm (th. 0.75)	OBO6047654	OBO6047655	OBO6047656
RKS MAGIC perforated cable tray 60 x 400 mm (th. 0.90)	OBO6047689	OBO6047690	OBO6047691
RKS MAGIC perforated cable tray 60 x 500 mm (th. 0.90)	OBO6047719	-	OBO6047721
RKS MAGIC perforated cable tray 60 x 600 mm (th. 0.90)	OBO6047735	-	OBO6047737

Available in heights 35 mm, 85 mm and 110 mm

Finishes: PG (Continuous pre-galvanisation) - CE (Continuous electrogalvanisation)

Z275 (Continuous hot-dip galvanisation) - HDG (Hot-dip galvanisation after manufacturing)



- 1 - Adjust
- 2 - Snap together
- 3 - Done!

AW 15 wall brackets: maximum load 150 kg

Hardware to be ordered

	Z275	HDG	304 SS	316 SS
Designation	Item No.	Item No.	Item No.	Item No.
AW bracket 15/100 mm	OBO6421280	OBO6420656	OBO6421008	OBO6392008
AW bracket 15/150 mm	OBO6421282	OBO6420664		
AW bracket 15/200 mm	OBO6421284	OBO6420680	OBO6421024	OBO6392016
AW bracket 15/300 mm	OBO6421286	OBO6420710	OBO6421032	OBO6392024
AW bracket 15/400 mm	OBO6421288	OBO6420745	OBO6421036	OBO6392032
AW bracket 15/500 mm	OBO6421290	OBO6420788	OBO6421040	OBO6392040
AW bracket 15/600 mm	OBO6421292	OBO6420826	OBO6421044	OBO6392059



TPS brackets and hangers

	Z275	HDG	304 SS
Designation	Item No.	Item No.	Item No.
TPSA bracket 100 mm	OBO6364101	OBO6364659	OBO6364871
TPSA bracket 150 mm	OBO6364152	OBO6364683	
TPSA bracket 200 mm	OBO6364209	OBO6364667	OBO6364876
TPSA bracket 300 mm	OBO6364306	OBO6364675	OBO6364881

	Z275	HDG	304 SS
Designation	Item No.	Item No.	Item No.
TPS hanger 400 mm	OBO6364322	OBO6364403	OBO6364848
TPS hanger 500 mm	OBO6364349	OBO6364500	OBO6364850
TPS hanger 600 mm	OBO6364365	OBO6364608	OBO6364852



TPD "C" ceiling brackets

	Z275	HDG
Designation	Item No.	Item No.
TPD "C" ceiling bracket 100 mm	OBO6363806	OBO6363861
TPD "C" ceiling bracket 200 mm	OBO6363814	OBO6363865
TPD "C" ceiling bracket 300 mm	OBO6363822	OBO6363869
TPD "C" ceiling bracket 400 mm	OBO6363826	
TPD "C" ceiling bracket 500 mm	OBO6363829	



All other accessories and hardware on request

WDK trunking

Heights 10 to 30 mm - Colour Pure White RAL 9010.

PVC WDK trunking Length 2 metres WDK and WDKN				Shaped PVC part			Shaped PVC parts				
				Joint cover WDK-HS	End cap WDK-HE		Internal corner WDK-HI	External corner WDK-HA	Flat bend WDK-HF	Tee WDK-HT	
Dim.	Type	Item No.	Pkg	Item No.	Item No.	Pkg	Item No.	Item No.	Item No.	Item No.	Pkg
12 x 22	WDK	OBO6150702	84	OBO6154042	OBO6154532	10	OBO6154342	OBO6154432	OBO6154232	OBO6154132	4
10 x 30	WDK	OBO6150780	64	OBO6154034	OBO6154522	10	OBO6154336	OBO6154425	OBO6154220	OBO6154123	4
15 x 15	WDK	OBO6191002	56		OBO6193099	10					
15 x 30	WDK	OBO6191010	32	OBO6193501	OBO6193102	10	OBO6191843	OBO6192149	OBO6192750	OBO6192459	4
15 x 40	WDK	OBO6191029	36	OBO6193528	OBO6193110	10	OBO6191851	OBO6192157	OBO6192769	OBO6192467	4
20 x 20	WDK	OBO6191037	48		OBO6193129	10	OBO6191878	OBO6192165	OBO6192777	OBO6192475	4
20 x 35	WDK	OBO6191045	32		OBO6193137	10					
20 x 50	WDK	OBO6168736	42	OBO6154069	OBO6154557	10	OBO6154360	OBO6154468	OBO6154255	OBO6154166	4
	WDKN	OBO6168744	42								
25 x 25	WDK	OBO6191053	30		OBO6193145	10	OBO6191886	OBO6192173	OBO6192785	OBO6192483	4
25 x 40	WDK	OBO6191061	24	OBO6193560	OBO6193153	10	OBO6191894	OBO6192181	OBO6192793	OBO6192491	4
25 x 40	WDKN	OBO6150640	36								
30 x 30	WDK	OBO6191096	40		OBO6193188	10	OBO6191924	OBO6192211	OBO6192815	OBO6192513	4
30 x 45	WDK	OBO6191118	48		OBO6193196	10	OBO6191932	OBO6192238	OBO6192823	OBO6192521	4

WDK distribution trunking

Heights 40 / 60 / 80 / 100 mm - Colour Pure White RAL 9010 (without built-in divider).

PVC WDK trunking Length 2 metres (40 x 40 delivered without cover clips)				PVC WDK-HE end cap		PVC shaped parts for WDK trunking				
						Internal bend WDK-HI	External bend WDK-HA	Flat bend WDK-HF	Tee cover WDK-HT	
Dim.	Type	Item No.	Pkg	Item No.	Pkg	Item No.	Item No.	Item No.	Item No.	Pkg
40 x 40	WDK	OBO6191126	36	OBO6193218	10	OBO6191940	OBO6192246	OBO6192831	OBO6192548	4
40 x 60	WDK	OBO6191134	24	OBO6193226	10	OBO6191959	OBO6192254	OBO6192858	OBO6192556	2
40 x 90	WDK	OBO6191142	32	OBO6193234	10	OBO6191967	OBO6192262	OBO6192866	OBO6192564	2
40 x 110	WDK	OBO6191150	24	OBO6193242	10	OBO6191975	OBO6192270	OBO6192874	OBO6192572	2
60 x 60	WDK	OBO6191193	32	OBO6193285	10	OBO6192017	OBO6192319	OBO6192912	OBO6192610	2
60 x 90	WDK	OBO6191207	24	OBO6193293	10	OBO6192025	OBO6192327	OBO6192920	OBO6192629	2
60 x 110	WDK	OBO6191215	16	OBO6193307	10	OBO6192033	OBO6192335	OBO6192939	OBO6192637	2
60 x 130	WDK	OBO6191223	16	OBO6193315	10	OBO6192041	OBO6192343	OBO6192947	OBO6192645	2
60 x 150	WDK	OBO6191231	8	OBO6193323	10	OBO6192068	OBO6192351	OBO6192955	OBO6192653	2
60 x 170	WDK	OBO6191258	8	OBO6193331	10	OBO6192076	OBO6192378	OBO6192963	OBO6192661	2
60 x 210	WDK	OBO6191266	8	OBO6193358	10	OBO6192084	OBO6192386	OBO6192971	OBO6192688	2
60 x 230	WDK	OBO6191274	8	OBO6193366	10	OBO6192092	OBO6192394	OBO6192998	OBO6192696	2
80 x 170	WDK	OBO6191304	8	OBO6193387	10	OBO6192106	OBO6192416	OBO6193021	OBO6192718	2
80 x 210	WDK	OBO6191312	8	OBO6193391	10	OBO6192110	OBO6192420	OBO6193025	OBO6192722	2
100 x 130	WDK	OBO6191347	8	OBO6193395	10	OBO6192114	OBO6192424	OBO6193029	OBO6192726	2
100 x 230	WDK	OBO6191355	4	OBO6193399	5	OBO6192118	OBO6192428	OBO6193033	OBO6192730	2

Dividers are to be ordered separately - Contact us

Trunking

PVC Rapid 45 in White RAL 9010

	PVC Rapid 45 trunking						Anodised aluminium Rapid 45 trunking			
	1 compartment 53 x 100		2 compartments 53 x 130		3 compartments 53 x 160		1 compartment 53 x 100		2 compartments 53 x 130	
The lengths	Item No.	Pkg	Item No.	Pkg	Item No.	Pkg	Item No.	Pkg	Item No.	Pkg
Rapid 45 trunking Length 2 m	OBO6113000	12	OBO6113200	8	OBO6116073	8	OBO6112403	8	OBO6112503	6
Protective film, with cover										
Divider	OBO6113290	40	OBO6113290	40	OBO6113290	40	OBO6113290	40	OBO6113290	40
Shaped parts	Item No.	Pkg	Item No.	Pkg	Item No.	Pkg	Item No.	Pkg	Item No.	Pkg
Rapid 45 joint cover	OBO6113020	1	OBO6113210	1	OBO6116163	1	OBO6113024	1	OBO6113214	1
Rapid 45 internal corner cover	OBO6113070	1	OBO6113250	1	OBO6116201	1	OBO6113074	1	OBO6113254	1
Rapid 45 external corner cover	OBO6113050	1	OBO6113230	1	OBO6116261	1	OBO6113054	1	OBO6113234	1
Rapid 45 flat angle cover	OBO6113090	1	OBO6113270	1	OBO6116493	1	OBO6113094	1	OBO6113274	1
Rapid 45 symmetrical Tee	OBO6113100	1	OBO6113300	1	OBO6116193	1	OBO6113104	1	OBO6113304	1
Rapid 45 symmetrical end cap	OBO6113110	1	OBO6113280	1	OBO6116403	1	OBO6113114	1	OBO6113284	1

Contact us for other sizes and finishes.

PVC Pure White RAL 9010

Anodised aluminium

We also offer Module 45 devices:



LK4 panel trunking

Length 2 metres



Designation	PVC Grey 7030 Item No.	Pkg
LK4 panel trunking 15 x 15 mm	OBO6178001	72
LK4 panel trunking 30 x 15 mm	OBO6178003	40
LK4 panel trunking 30 x 25 mm	OBO6178005	48
LK4 panel trunking 40 x 25 mm	OBO6178010	48
LK4 panel trunking 40 x 40 mm	OBO6178012	36
LK4 panel trunking 40 x 60 mm	OBO6178014	24
LK4 panel trunking 40 x 80 mm	OBO6178016	24
LK4 panel trunking 40 x 100 mm	OBO6178018	24
LK4 panel trunking 60 x 15 mm	OBO6178026	48
LK4 panel trunking 60 x 25 mm	OBO6178028	32
LK4 panel trunking 60 x 40 mm	OBO6178031	24
LK4 panel trunking 60 x 60 mm	OBO6178033	32
LK4 panel trunking 60 x 80 mm	OBO6178035	24
LK4 panel trunking 60 x 100 mm	OBO6178037	16
LK4 panel trunking 60 x 120 mm	OBO6178039	8
LK4 panel trunking 80 x 25 mm	OBO6178050	32
LK4 panel trunking 80 x 40 mm	OBO6178052	24
LK4 panel trunking 80 x 60 mm	OBO6178054	24
LK4 panel trunking 80 x 80 mm	OBO6178056	16
LK4 panel trunking 80 x 100 mm	OBO6178059	16
LK4 panel trunking 80 x 120 mm	OBO6178061	8



Easy-to-break-off tabs



Cables supported by the rigidity of the tabs and easy-to-attach cover.



Oblong perforations in 2 sizes



Cable reels

The ranges:

GREEN (0 to 10 kg), SILVER (0 to 50 kg), YELLOW (0 to 120 kg), PURPLE (0 to 230 kg).

Reference	Designation	Pkg	L (m)	CL (kg)
TEKZCT2005	R200GREEN	1	200	10
TEKZCT2010	R500GREEN	1	500	10
TEKZCT2015	R100SILVER	1	100	50
TEKZCT2020	R200SILVER	1	200	50
TEKZCT2040	R100YELLOW	1	100	120
TEKZCT2050	R100PURPLE	1	100	230



ZCT20**

Locking clips

Reference	Designation	Pkg	Range	CL (kg)
TEKZCT3000	KL50	100	Green Lock	10
TEKZCT3020	KL50PK	10	Green Lock	10
TEKZCT3005	KL100	100	Silver Lock	50
TEKZCT3025	KL100PK	10	Silver Lock	50
TEKZCT3010	KL150	100	Yellow Lock	120
TEKZCT3030	KL150PK	10	Yellow Lock	120
TEKZCT3015	KL200	100	Purple Lock	230



ZCT30**

Cable and locking clip kits

Kits composed of 200 metres of cable and 100 locking clips.

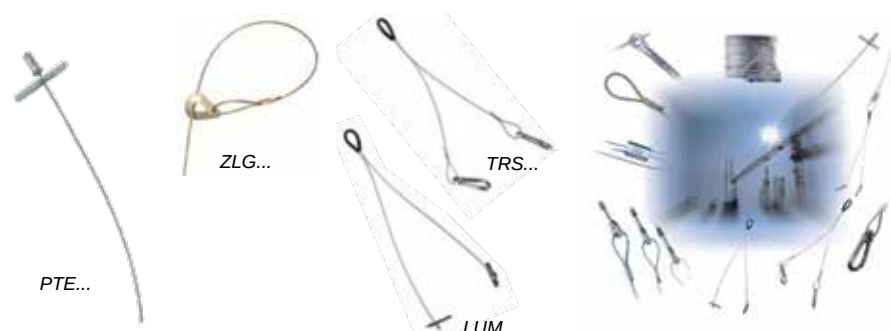
Reference	Designation	Pkg	Cable (m)	Clips	CL (kg)
TEKZCT9015	KITGREEN-C&M	1	200	100	10
TEKZCT9016	KITSILVER-C&M	1	200	100	50

Loop and locking clip kits

Reference	Designation	Pkg	L (m)	CL (kg)
TEKZCT2055	PLE1GREEN	10	1	10
TEKZCT2057	PLE2GREEN	10	2	10
TEKZCT2060	PLE3GREEN	10	3	10
TEKZCT2062	PLE4GREEN	10	4	10
TEKZCT2065	PLE5GREEN	10	5	10
TEKZCT2070	PLE1SILVER	10	1	45
TEKZCT2072	PLE2SILVER	10	2	45
TEKZCT2075	PLE3SILVER	10	3	45
TEKZCT2077	PLE4SILVER	10	4	45
TEKZCT2080	PLE5SILVER	10	5	45
TEKZCT2082	PLE10SILVER	10	10	45
TEKZCT2150	PTE1YELLOW	10	1	90
TEKZCT2152	PTE2YELLOW	10	2	90
TEKZCT2155	PTE3YELLOW	10	3	90
TEKZCT2157	PTE4YELLOW	10	4	90
TEKZCT2160	PTE5YELLOW	10	5	90



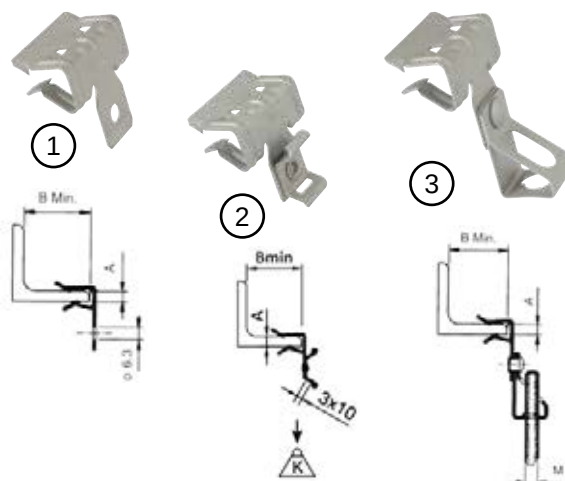
ZCT20**



Steel fastening clips

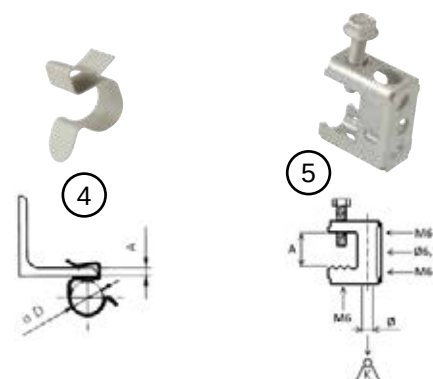
	Reference	Designation	Pkg	A (mm)	B (mm)	CL (kg)
1	TEKCLP1000	CLP-H1	100	1.5 to 4	18	70
	TEKCLP1005	CLP-H2	100	4 to 10	25	90
	TEKCLP1010	CLP-H3	100	10 to 15	25	90
	TEKCLP1015	CLP-H4	100	15 to 20	25	90
2	TEKCLP1055	CLP-H1-CT	100	1.5 to 4	18	15
	TEKCLP1060	CLP-H2-CT	100	4 to 10	25	15
	TEKCLP1065	CLP-H3-CT	100	10 to 15	25	15
	TEKCLP1070	CLP-H4-CT	100	15 to 20	25	15
3	TEKCLP1125	CLP-BF2-M8	100	4 to 10	25	70

Anti-corrosion coating



	Reference	Designation	Pkg	A (mm)	Ø (mm)	CL (kg)
4	TEKCLP1225	CLP-1C1214	100	1 to 4	12-14	-
	TEKCLP1235	CLP-1C1924	100	1 to 4	19-24	-
	TEKCLP1265	CLP-2C1924	100	4 to 7.5	19-24	-
	TEKCLP1270	CLP-2C2530	100	4 to 7.5	25-30	-
	TEKCLP1290	CLP-3C1518	100	7.5 to 12	15-18	-
	TEKCLP1295	CLP-3C1924	100	7.5 to 12	19-24	-
	TEKCLP1300	CLP-3C2530	100	7.5 to 12	25-30	-
5	TEKCLP1305	CLP-MBC	100	0 to 16	10.5	45

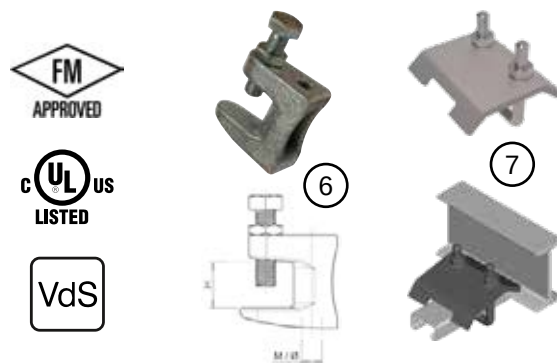
Anti-corrosion coating



Screw clamps

	Reference	Designation	Pkg	H (mm)	M / Ø	CM (kg)
6	TEKTKM1000	TKM-M6	50	18	M6	120
	TEKTKM1005	TKM 8	50	18	Ø9	120
	TEKTKM1010	TKM-M8	50	18	M8	120
	TEKTKM1015	TKM10	50	20	Ø11	250
	TEKTKM1020	TKM-M10	50	20	M10	250
	TEKTKM1025	TKM12	50	26	Ø13	350
	TEKTKM1030	TKM-M12	50	26	M12	350
	TEKTKM1035	TKM-M16	50	28	M16	550
7	TEKSTF1076	STF-G21-G41	10	Usable for profile 41 x 21, 41 x 21 double and 41 x 41.		

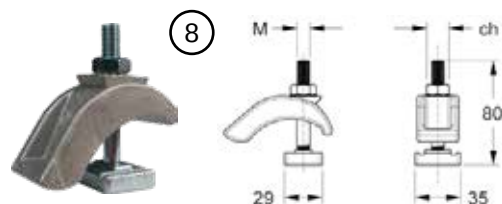
Cast iron coating

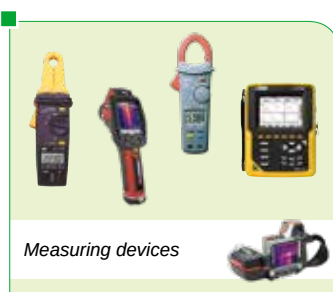
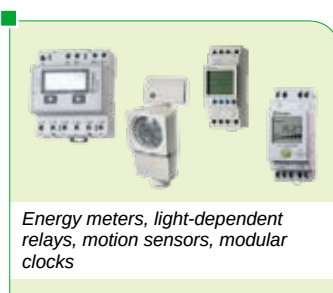
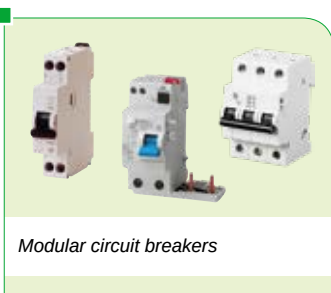
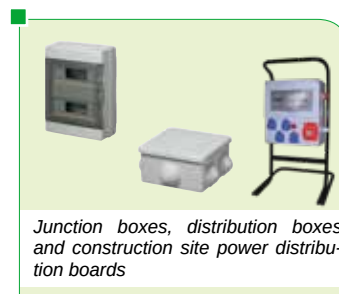
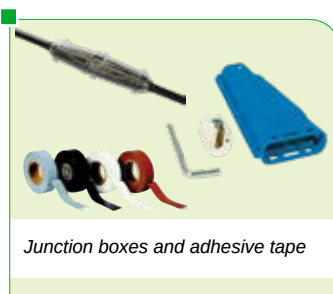
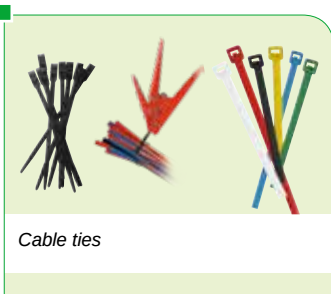
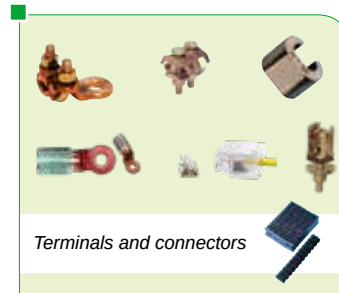
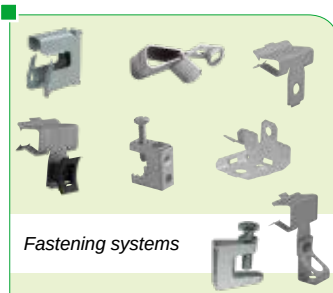
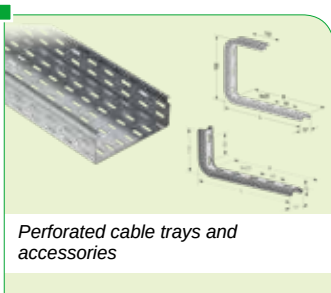
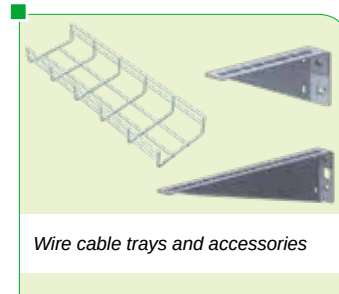
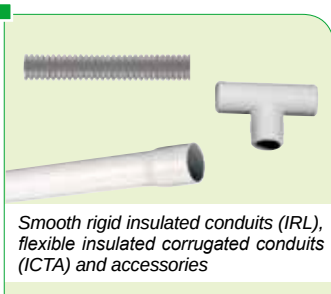


Clamp for RSJ - "G" type heavy load

	Reference	Designation	Pkg	Max. height (mm)	M	ch (mm)	CM (kg)
8	TEKSTF3000	STF-GPE41	10	30	M10	17	360

Hot-dip galvanised coating





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CONNECTIONS

TITLE	BRAND	PAGE
Industrial connectors	HARTING.....	F.2
Han Modular	HARTING.....	F.4
Cylindrical connectors	JAEGER.....	F.5
M8 and M12 single and double-ended cordsets, connectors	LUMBERG	F.6
Distribution boxes, cordsets and valve connectors	LUMBERG	F.7
DECONTACTOR™ = industrial socket + built-in switch	MARECHAL.....	F.8
Sockets, plugs and connectors	MENNEKES.....	F.10
Construction site power distribution boards	MENNEKES.....	F.11
16 to 125 A industrial plugs and sockets	GEWISS.....	F.12
IP20 to IP69K industrial Ethernet network and SubD connections	MH. CO. / TELEGARTNER	F.13
We also offer... ..	ETN	F.14

Han summary - Size 6 B, 10 B, 16 B, 24 B, 32 B, 48 B

Inserts for Han B

Screw connection.

Designation	Number of contacts	Male (M) Female (F)	Reference	Contact identification	Characteristics
Han 6E	6 + E	M	HAR09330062601	1-6	16 A - 400 V
		F	HAR09330062701		
Han 10E	10 + E	M	HAR09330102601	1-10	
		F	HAR09330102701		
Han 16E	16 + E	M	HAR09330162601	1-16	
		F	HAR09330162701		
Han 24E	24 + E	M	HAR09330242601	1-24	
		F	HAR09330242701		

HAR09330062601



HAR09330062701

Covers for Han E (PG version)

Designation	Side entry		Vertical entry	
	Pg	Reference	Pg	Reference
Low profile				
Han 6E	13	HAR09300061540	13	HAR09300061440
Han 10E	16	HAR09300101521	16	HAR09300101421
Han 16E	21	HAR09300161520	21	HAR09300161420
Han 24E	21	HAR09300241520	21	HAR09300241421
High profile				
Han 6E	21	HAR09300060542	21	HAR09300060442
Han 10E	21	HAR09300100522	21	HAR09300100422
Han 16E	29	HAR09300160521	29	HAR09300160421
Han 24E	29	HAR09300240521	29	HAR09300240421



HAR09300101421



HAR09300100422



HAR09300101521



HAR09300100522

Covers for Han E (ISO version)

Designation	Side entry		Vertical entry	
	Pg	Reference	Pg	Reference
Low profile				
Han 6E	20	HAR19300061540	20	HAR19300061440
Han 10E	20	HAR19300101520	20	HAR19300101420
Han 16E	25	HAR19300161521	25	HAR19300161421
Han 24E	25	HAR19300241521	32	HAR19300241422
High profile				
Han 6E	25	HAR19300060546	25	HAR19300060446
Han 10E	32	HAR19300100527	32	HAR19300100427
Han 16E	32	HAR19300160527	32	HAR19300160427
Han 24E	32	HAR19300240527	32	HAR19300240427

Bases for Han E

Designation	Flush-fitting base	Surface-mounted base 1 cable entry		Surface-mounted base 1 ISO cable entry	
	Reference	Pg	Reference	ISO	Reference
Han 6E	HAR09300060301	16	HAR09300061251	20	HAR19300061250
Han 10E	HAR09300100301	16	HAR09300101231	20	HAR19300101230
Han 16E	HAR09300160301	21	HAR09300161230	25	HAR19300161231
Han 24E	HAR09300240301	21	HAR09300241230	25	HAR19300241231

Also available with cover.



HAR09300100301

HAR09300101231

Han summary - Size 3 A, 10 A, 16 A, 32 A

Inserts for Han A

Screw connection.

Designation	Number of contacts	Male (M) Female (F)	Reference	Contact identification	Characteristics
Han 3A	3 + E	M	HAR09200032611	1-3	10 A
		F	HAR09200032711		230/400 V
Han 4A	4 + E	M	HAR09200042611	1-4	10 A
		F	HAR09200042711		230/400 V
Han 10A	10 + E	M	HAR09200102612	1-10	16 A
		F	HAR09200102812		250 V
Han 16A	16 + E	M	HAR09200162612	1-16	16 A
		F	HAR09200162812		250 V
Han 32A	32 + E	M	HAR09200162612	1-16	
		F	HAR09200162812	1-16	250 V
		F	HAR09200162813	17-32	
		M	HAR09200162613	17-32	16 A

HAR09200162612



HAR09200162812

Crimp connection

Designation	Number of contacts	Male (M) Female (F)	Reference	Contact identification	Characteristics
Han 7D	7 + E	M	HAR09210073031	3A	10 A
		F	HAR09210073131		230/400 V
Han 15D	15 + E	M	HAR09210153001	10A	10 A
		F	HAR09210153101		250 V
Han 25D	25 + E	M	HAR09210253001	16A	10 A
		F	HAR09210253101		250 V
Han 50D	50 + E	M	HAR09210253001	32A	10 A
		F	HAR09210253101		250 V

HAR09210153001



HAR09210153101

Silver crimp contacts (gold on request)

Wire cross-section	Male contacts	Female contacts
0.14-0.37	HAR09150006104	HAR09150006204
0.5	HAR09150006103	HAR09150006203
0.75	HAR09150006105	HAR09150006205
1	HAR09150006102	HAR09150006202
1.5	HAR09150006101	HAR09150006201
2.5	HAR09150006106	HAR09150006206



HAR09150006102



HAR09150006202

Covers and bases for Han A (PG version)

Designation	PG	Cover with side entry	PG	Cover with vertical entry	Flush-fitting base	PG	Surface-mounted base 1 cable entry
Han 3A	11	HAR09200031640	11	HAR09200031440	HAR09200030301	11	HAR09200031250
Han 10A	16	HAR09200101541	13	HAR09200101440	HAR09200100301	16	HAR09200100251
Han 16A	16	HAR09200161541	16	HAR09200161441	HAR09200160301	16	HAR09200160251
Han 32A	21	HAR09200321520	21	HAR09200320420	HAR09200320301	21	HAR09200320230

Han 3A: Also available in plastic



HAR09200160441



HAR09200160301

Covers and bases for Han A (metric version)

Designation	ISO	Cover with side entry	ISO	Cover with vertical entry	Flush-fitting base	ISO	Surface-mounted base 1 cable entry
Han 3A	20	HAR19200031640	20	HAR19200031440	HAR09200030301	20	HAR19200031250
Han 10A	20	HAR19200101540	20	HAR19200101440	HAR09200100301	25	HAR19200100251
Han 16A	20	HAR19200161540	20	HAR19200161440	HAR09200160301	25	HAR19200160251
Han 32A	25	HAR19200321521	25	HAR19200320426	HAR09200320301	25	HAR19200320231

Han 3A: Also available in plastic



HAR09200160541

Frames (2 to 6 modules)

Nbr modules	Size	A...F marking	a...f marking
2	6	HAR09140060361	HAR09140060371
3	10	HAR09140100361	HAR09140100371
4	16	HAR09140160361	HAR09140160371
6	24	HAR09140240361	HAR09140240371



HAR09140100303
HAR09140100313

Electrical contact modules (power and control)

Nbr contacts	I (A)	U (V)	Male connector	Female connector	Type of output
2	40	1000	HAR09140022601	HAR09140022701	Axial screw
3	40	400/690	HAR09140033001	HAR09140033101	Crimp
5	16	400	HAR09140052616	HAR09140052716	Cage clamp
6	16	500	HAR09140063001	HAR09140063101	Crimp
8	16	400	HAR09140083001	HAR09140083101	Crimp
12	10	250	HAR09140123001	HAR09140123101	Crimp



Contact us for other modules.

Silver crimp contacts (gold on request)

Wire cross-section	Male contacts	Female contacts
0.5	HAR09150006103	HAR09150006203
0.75	HAR09150006105	HAR09150006205
1	HAR09150006102	HAR09150006202
1.5	HAR09150006101	HAR09150006201



Pneumatic modules

Nbr contacts	Int. pipe Ø (mm)	Male connector	Female connector
2	6	HAR09140024501	HAR09140024501
3	1.6/3/4	HAR09140034501	HAR09140034501



Pneumatic contacts

Pipe Ø (mm)	Male contacts	Female contacts	
		without valve	with valve
1.6	HAR09140006151	HAR09140006251	HAR09140006256
3	HAR09140006152	HAR09140006252	HAR09140006257
4	HAR09140006153	HAR09140006253	HAR09140006258
6	HAR09140006174	HAR09140006274	HAR09140006279



Technical modules

Type	Male module	Female module
Quintax	HAR09140023001	HAR09140023101
Quintax Contact	HAR09150043013	HAR09150043113
USB	HAR09140014601	HAR09140014701
FireWire	HAR09140014611	HAR09140014711
Sub-D 9 pts	HAR09140093001	HAR09140093101
RJ45	HAR09140014623	HAR09140014721



Rapid series for fast locking and unlocking

3 sizes of housing - 3 to 17 solder contacts - IP 50/54 - Nickel-plated metal body - Silver-plated brass contacts.

Female panel-mount receptacles - Male plugs - Female coupler connectors

Housing	Number of contacts	Contact Ø			Square female receptacle	Male plug	Female coupler connector	Cable clamp Type 3	Pack of 10 receptacle gaskets
		Ø 2	Ø 3	Ø 4					
1	3	1	2		JAE536603006	JAE532653006	JAE530153006	JAE630135006	JAE536945006
1	4	4			JAE536604006	JAE532654006	JAE530154006	JAE630135006	JAE536945006
1	6	6			JAE536606006	JAE532656006	JAE530156006	JAE630135006	JAE536945006
2	4			4	JAE533760006	JAE530754006	JAE530753006	JAE630138006	JAE536946006
2	8	6	2		JAE536608006	JAE532658006	JAE530158006	JAE630138006	JAE536946006
2	12	12			JAE536612006	JAE532662006	JAE530162006	JAE630138006	JAE536946006
3	17	15	2		JAE536368006	JAE532368006	JAE530167006	JAE630155006	JAE536947006



Rapid series

Male panel-mount receptacles - Female cable-mount sockets - Male coupler connectors

Housing	Number of contacts	Contact Ø			Square male receptacle	Female cable-mount socket	Male coupler connector	Cable clamp Type 3	Pack of 10 receptacle gaskets
		Ø 2	Ø 3	Ø 4					
1	3	1	2		JAE536003006	JAE532003006	JAE532103006	JAE630135006	JAE536945006
1	4	4			JAE536004006	JAE532004006	JAE532104006	JAE630135006	JAE536945006
1	6	6			JAE536006006	JAE532006006	JAE532106006	JAE630135006	JAE536945006
2	4			4	JAE533755006	JAE530755006	JAE530752006	JAE630138006	JAE536946006
2	8	6	2		JAE536008006	JAE532008006	JAE532108006	JAE630138006	JAE536946006
2	12	12			JAE536012006	JAE532012006	JAE532112006	JAE630138006	JAE536946006
3	17	15	2		JAE536367006	JAE532367006	JAE530117006	JAE630155006	JAE536947006

Industrial series with earth contact to connect to the housing

3 sizes of housing - 3 to 27 solder or crimp contacts - IP 50/54 - Nickel-plated metal body - Gold-plated brass contacts.



Industrial series

Female panel-mount receptacles - Male plugs - Female coupler connectors

Housing	Number of contacts	Contact Ø			Square female panel-mount receptacle	Male plug	Female coupler connector	Cable clamp Type 3	Pack of 10 receptacle gaskets	Crimping tool with positioner
		Ø 2	Ø 3	Ø 4						
1	3	Ø1.6 mm			JAE630703006	JAE632703006	JAE633703006	JAE630135006	JAE536945006	Contact insertion -extraction tool
1	4				JAE630704006	JAE632704006	JAE633704006	JAE630135006	JAE536945006	
1	7				JAE630707006	JAE632707006	JAE633707006	JAE630135006	JAE536945006	
2	12				JAE630712006	JAE632712006	JAE633712006	JAE630138006	JAE536946006	
3	19				JAE630719006	JAE632719006	JAE633719006	JAE630155006	JAE536947006	
3	27				JAE630727006	JAE632727006	JAE633727006	JAE630155006	JAE536947006	

Male panel-mount receptacles - Female cable-mount sockets - Male coupler connectors

Housing	Number of contacts	Contact Ø			Square male panel-mount receptacle	Female cable-mount socket	Male coupler connector	Cable clamp Type 3	Pack of 10 receptacle gaskets	Crimping tool with positioner
		Ø 2	Ø 3	Ø 4						
1	3	Ø1.6 mm			JAE630603006	JAE632603006	JAE633603006	JAE630135006	JAE536945006	Contact insertion -extraction tool
1	4				JAE630604006	JAE632604006	JAE633604006	JAE630135006	JAE536945006	
1	7				JAE630607006	JAE632607006	JAE633607006	JAE630135006	JAE536945006	
2	12				JAE630612006	JAE632612006	JAE633612006	JAE630138006	JAE536946006	
3	19				JAE630619006	JAE632619006	JAE633619006	JAE630155006	JAE536947006	
3	27				JAE630627006	JAE632627006	JAE633627006	JAE630155006	JAE536947006	

M8 and M12 field-wireable connectors

Type	Nbr poles	Designation	Straight ref (PG7)	Straight ref (PG9)	Right-angle ref (PG7)	Right-angle ref (PG9)
M8	3	Male solder connector	RSMC3	-	RSMCW3	-
		Male screw connector	RSMCK3	-	-	-
		Female solder connector	RKMC3	-	RKMCW3	-
	4	Female screw connector	RKMCK3	-	-	-
		Male solder connector	RSMC4	-	RSMCW4	-
		Male screw connector	RSMCK4	-	-	-
		Female solder connector	RKMC4	-	RKMCW4	-
M12	3	Male screw connector	RSC37	RSC39	RSCW37	RSCW39
			RSC47	RSC49	RSCW47	RSCW49
			RSC57	RSC59	RSCW57	RSCW59
			-	RSC89	-	RSCW89
	4	Female screw connector	RKC437	RKC439	RKCW437	RKCW439
			RKC47	RKC49	RKCW47	RKCW49
			RKC57	RKC59	RKCW57	RKCW59
			-	RKC89	-	RKCW89



M12 field-wireable connectors, B coded, Profibus

Type	Nbr poles	Male connector	Female connector	Terminator plug
M12	5	0976PMC101	0976PFC101	0979PTX101



M8 and M12 single and double-ended cordsets

Type	Nbr wires	Designation	Single-ended female cordset		Double-ended cordset	
			Straight reference	Right-angle reference	Straight male / straight female ref	Straight male / right-angle female ref
M8	3	Lumflex PUR cable	RKMV32242M	RKMV32242M	RSMV3RKMV3224...M	RSMV3RKMV3224...M
			RKMV32245M	RKMV32245M		
			RKMV322410M	RKMV322410M		
	4	Lumflex PUR cable	RKMV42252M	RKMV42252M	RSMV4RKMV4225...M	RSMV4RKMV4225...M
			RKMV42255M	RKMV42255M		
			RKMV422510M	RKMV422510M		
M12	3	Lumflex PUR cable	RKM52932M	RKM52932M	RSM5RKM5293...M	RSM5RKM5293...M
			RKM52935M	RKM52935M		
			RKM529310M	RKM529310M		
	4	Lumflex PUR cable	RKT42252M	RKT42252M	RST4RKT4225...M	RST4RKT4225...M
			RKT42255M	RKT42255M		
			RKT422510M	RKT422510M		
	5	Cnomo PVC cable	RKT52892M	RKT52892M	RST5RKT5289...M	RST5RKT5289...M
			RKT52895M	RKT52895M		
			RKT528910M	RKT528910M		
		Cnomo PUR cable	RKT5872M	RKT5872M	RST5RKT587...M	RST5RKT587...M
			RKT5875M	RKT5875M		
			RKT58710M	RKT58710M		
M12	4	PVC cable with stainless steel ring	PRKT4075M	PRKT4075M	PRST4PRKT4072M	PRST4PRKT4072M
			PRKT40710M	PRKT40710M		
			PRKT5565M	PRKT5565M		
			PRKT55610M	PRKT55610M		
M12	5	Profibus cable	0975254102...M	0975254103...M	0975254101...M	-
M12	4	PVC cable with stainless steel ring(Ecolab)	WRKT43520...M	WRKT43520...M	-	-
	5		WRKT5522...M	WRKT5522...M	WRST5WRKT5522...M	WRST5WRKT5522...M

Standard length: 1, 2, 3, 5 and 10 m. Contact us for all other models or lengths.



Y cordset: M12 to two M12 or M12 to two M8

Nbr wires	Type of cable	M12 straight male Y Two M12 straight female	M12 straight male Y Two M12 right-angle female	M12 straight male Y Two M8 straight female	M12 straight male Y Two M8 right-angle female
3	Lumflex PUR cable	ASB2RKT43224...M	ASB2RKWT43224...M	ASB2RKMV3224...M	ASB2RKMVLE-DA3224...M
5	Cnomo PUR cable	ASB2RKT5487...P21	ASB2RKWT5487...P24	-	-
	Cnomo PVC cable	ASB2RKT5289...P51	-	-	-

Standard length 1, 2 and 5 m. Contact us for all other models or lengths.



M12 splitter/T-connector to M12 or M8

		M8 female	M12 female	M12 female	M12 female	M12 female AND function
M12 straight male	Wiring diagram					
		ASBS2M8	ASBS2M125	ASBS2M125S	ASBS2M12511	ASBSA2M123



Cordsets and valve connectors, 24 V with LED

Type of cable	Form A			Form B		Form C			
	Varistor	TVS diode	Pressure switch	DIN (10 mm)	Indus. (11 mm)	DIN (8 mm)		Indus. (9.4 mm)	
						Varistor	TVS diode	Varistor	TVS diode
Single-ended cordsets									
PVC	VAD1A13212..M	-	-	VBD1A11212..M	VB1A11212..M	VCD1A13212..M	-	-	VC1A13212..M
PUR	-	VAD1B13226..M	VAD3C41228..M	VBD1A11226..M	VB1A11226..M	VCD1A13226..M	-	-	VC1A13226..M
Double-ended cordset									
PUR	RST53VAD1A13226..M	RST5VAD2B13226..P39	RST5VAD3C41228..M	RST53VBD1A11226..M	RST53VB1A11226..M	RST53VCD1A13226..M	RST5VCD2B13226..P14	RST53VC1A13226..M	-

Standard single-ended cordset length: 5 and 10 m. Standard double-ended cordset length: 1 and 2 m. Contact us for all other models or lengths.



Y cordset, M12 to two valve connectors, form A or B or C

Type of cable	M12 straight male Y Two valve connectors form A	M12 straight male Y Two valve connectors form B	M12 straight male Y Two valve connectors form C
PUR	ASB2VAD1A13226..M	ASB2VBD1A11226..M	ASB2VC1A13226..M

Standard length: 1 m and 2 m. Contact us for all other models or lengths.



Connection cables and connectors for M8 or M12 distribution box

Type	Single-ended M23 cordset for M12 distribution box		Single-ended M12 cordset for M8 distribution box (standard box)		Single-ended M12 cordset for M8 distribution box (miniature box)	
	Straight female	Right-angle female	Straight female	Right-angle female	Straight female	Right-angle female
Overmoulded cable	RKUE192425M	RKWUE192425M	RKT123462M	RKWT123462M	RKT863372M	RKWT863372M
	RKUE1924210M	RKWUE1924210M	RKT123465M	RKWT123465M	RKT863375M	RKWT863375M
	RKUE1924215M	RKWUE1924215M	RKT1234610M	RKWT1234610M	RKT8633710M	RKWT8633710M
Connector to solder	RKC19013.5	RKCW19013.5	-	-	RKC89	RKCW89

Contact us for all other models or lengths.



M8, M12 distribution boxes, connector or cable outputs

Nbr channels	M12 distribution box		Stainless steel M12 distribution box		M8 distribution box (standard box)		M8 distribution box (miniature box)	
	M23 connect.	Cable connect.	Cable connect.	M12 side entry cable connect.	M12 connect.	Cable connect.	M12 Connect.	Cable connect.
4	ASBSV45	ASBV452565M	-	-	ASBSM4LED3	ASBM4LED33435M	SBS4LED3	-
	-	ASBV4525610M	-	-	-	ASBM4LED334310M	-	-
6	ASBSV65	ASBV653325M	-	-	ASBSM6LED3	ASBM6LED33445M	-	-
	-	ASBV6533210M	-	-	-	ASBM6LED334410M	-	-
8	ASBSV85	ASBV852425M	ASNbv-8LED52785M	ASN-BL8LED543205M	ASBSM8LED3	ASBM8LED33455M	-	SB8LED33335M
	-	ASBV8524210M	ASNbv-8LED527810M	ASN-BL8LED5432010M	-	ASBM8LED334510M	-	SB8LED333310M
10	-	-	-	-	ASBSM10LED3	ASBM10LED33465M	-	-
	-	-	-	-	-	ASBM10LED334610M	-	-
12	-	-	-	-	-	ASBM12LED33475M	-	-
	-	-	-	-	-	ASBM12LED334710M	-	-

Available in LED version. Contact us.. Contact us for all other models or lengths.



DECONTACTOR™

The electric plug and socket-outlet with integrated switch

Load breaking up to 250 A without electrical authorisation required.

User safety: safety shutter opens when the plug is inserted and rotated through a 1/8 turn, IP4X

Fibreglass reinforced polyester IK08 metal IK09.

T°C amb -40°C +60°C.

Automatic watertightness up to IP66/67/69.

Locking pin for 2 padlocks available

Available in version for explosive atmospheres 

■ Operating Voltage: 1000 V max.

■ Operating temperature: -40°C to +60°C

■ Up to 6 auxiliaries

■ Protection rating: IP66-IP67-69

■ Impact resistance: IK09

■ AC23 breaking capacity



20 A

DSN1

Voltage	Contact configuration	Socket outlet	Inclined socket outlet	Wall socket outlet	Coupler socket	Plug connector	Inlet
							
220-250 VAC	1P+N+E+ accessory	MAR6114015	MAR6114015	MAR6114015	MAR6114015	MAR6118015	MAR6118015
		/	MAR511M3	MAR511B3M20 ⁽¹⁾	MAR511P0D18 ⁽²⁾	MAR511P0D18 ⁽²⁾	/
380-440 VAC	3P+E+ accessory	MAR6114013	MAR6114013	MAR6114013	MAR6114013	MAR6118013	MAR6118013
		/	MAR511M3	MAR511B3M20 ⁽¹⁾	MAR511P0D18 ⁽²⁾	MAR511P0D18 ⁽²⁾	/
220-250 VAC 380-440 VAC	3P+N+E+ accessory	MAR6114017	MAR6114017	MAR6114017	MAR6114017	MAR6118017	MAR6118017
		/	MAR511M3	MAR511B3M20 ⁽¹⁾	MAR511P0D18 ⁽²⁾	MAR511P0D18 ⁽²⁾	/

(1) M20 thread - (2) Clamping diameter 9-18 mm.

32 A

DSN3

Voltage	Contact configuration	Socket outlet	Inclined socket outlet	Wall socket outlet	Coupler socket	Plug connector	Inlet
							
220-250 VAC	1P+N+E+ accessory	MAR6134015	MAR6134015	MAR6134015	MAR6134015	MAR6138015	MAR6138015
		/	MAR512M3	MAR512B3M20 ⁽¹⁾	MAR512P0D21 ⁽²⁾	MAR512P0D21 ⁽²⁾	/
380-440 VAC	3P+E+ accessory	MAR6134013	MAR6134013	MAR6134013	MAR6134013	MAR6138013	MAR6138013
		/	MAR512M3	MAR512B3M20 ⁽¹⁾	MAR512P0D21 ⁽²⁾	MAR512P0D21 ⁽²⁾	/
220-250 VAC 380-440 VAC	3P+N+E+ accessory	MAR6134017	MAR6134017	MAR6134017	MAR6134017	MAR6138017	MAR6138017
		/	MAR512M3	MAR512B3M20 ⁽¹⁾	MAR512P0D21 ⁽²⁾	MAR512P0D21 ⁽²⁾	/

(1) M20 thread - (2) Clamping diameter 5-21 mm.

Accessories

	Insertion mechanism (pair of finger draw plates)	IP66/IP67 plug cap	Automatic self-closing lid (without full closure IP40)	Locking with pin for 2 padlocks Ø4 to 8 mm (padlock not supplied)
				
DSN1	MAR611A346	MAR611A426	Socket outlet ref +R	Socket outlet ref + 843
DSN3	MAR613A346	MAR613A426	Socket outlet ref +R	Socket outlet ref + 843

63 A
DSN6

Voltage	Contact configuration	Socket outlet	Inclined socket outlet	Wall socket outlet	Coupler socket	Plug connector	Inlet
							
220-250 VAC	1P+N+E + accessory	MAR6164015	MAR6164015	MAR6164015	MAR6164015	MAR6168015	MAR6168015
		/	MAR513M3	MAR513B3M25 ⁽¹⁾	MAR513P0D30 ⁽²⁾	MAR513P0D30 ⁽²⁾	/
380-440 VAC	3P+E + accessory	MAR6164013	MAR6164013	MAR6164013	MAR6164013	MAR6168013	MAR6168013
		/	MAR513M3	MAR513B3M25 ⁽¹⁾	MAR513P0D30 ⁽²⁾	MAR513P0D30 ⁽²⁾	/
220-250 VAC 380-440 VAC	3P+N+E + accessory	MAR6164017	MAR6164017	MAR6164017	MAR6164017	MAR6168017	MAR6168017
		/	MAR513M3	MAR513B3M25 ⁽¹⁾	MAR513P0D30 ⁽²⁾	MAR513P0D30 ⁽²⁾	/

(1) M25 thread - (2) Clamping diameter 10-30 mm.

150 A
DS9

Voltage	Contact configuration	Socket outlet	Inclined socket outlet	Wall socket outlet	Coupler socket	Plug connector	Inlet
							
380-440 VAC	3P+E + accessory	MAR3194013	MAR3194013	MAR3194013	MAR3194013	MAR3198013	MAR3198013
		/	MAR515M3	MAR595C3M40 ⁽¹⁾	MAR555P0D35 ⁽²⁾	MAR555P0D35 ⁽²⁾	/
220-250 VAC 380-440 VAC	3P+N+E + accessory	MAR3194017	MAR3194017	MAR3194017	MAR3194017	MAR3198017	MAR3198017
		/	MAR515M3	MAR595C3M40 ⁽¹⁾	MAR555P0D35 ⁽²⁾	MAR555P0D35 ⁽²⁾	/

(1) M40 thread - (2) Clamping diameter 25-35 mm.
Available in IK09, IK10 metal version

Accessories

	Insertion mechanism (pair of finger draw plates)	IP66/IP67 plug cap	Automatic self-closing lid (without full closure IP40)	Locking with pin for 2 padlocks Ø4 to 8 mm (padlock not supplied)
				
DSN6	MAR616A346	MAR616A426	Socket outlet ref +R	Socket outlet ref + 843
DS9	Included	MAR319A426	-	-



DECONTACTOR™
The electric plug and socket-outlet with integrated switch

For explosion-hazard areas
Zones 1 and 2 (gas)
Zones 21 and 22 (dust)
Certified II2GD Exde IIC, Ex tb IIIC

- Operating Voltage: 750 V max.
- Operating temperature: -40°C to +60°C.
- Protection rating: IP66-IP67.
- Impact resistance: IK09.
- Up to 2 auxiliaries.



20 A - DXN1



32 A - DXN3

63 A - DXN6

The specialist solution: Simple - Fast - Robust - Endurance

Plugs and connectors: Quick connection by unscrewing the cap and unlocking the catch, manually tightened cable gland. Self-stripping terminal technology for easy, quick assembly, dividing installation time by 6.

PowerTOP®XTRA: the connectors are equipped with the latest X-Contact® sleeves.

TwinCONTACT receptacles: Dual spring terminals with colour codes on our surface-mounted and semi-flush-mounted receptacles. Fast. Reliable. Tested. Patented.

Screw terminal: All products with screws are delivered unscrewed. The screws always point in the same direction.

StarTOP® IP44 plugs and connectors

Threaded end, self-stripping terminals, quick to use

Photo		3P 230 V	4P 400 V	5P 400 V
	16 A	MEN948	MEN952	MEN33
	32 A	MEN712	MEN719	MEN34
	16 A	MEN980	MEN994	MEN35
	32 A		MEN763	MEN36

AM-TOP® IP44 plugs and connectors,

One-piece body, screw terminals, standard use

Photo		3P 230 V	4P 400 V	5P 400 V
	16 A	MEN248	MEN252	MEN3
	32 A	MEN260	MEN264	MEN4
	16 A	MEN510	MEN514	MEN5
	32 A	MEN522	MEN526	MEN6

Plugs and connectors with domestic pins

NF IP44 Rubber

Photo	Designation	Reference
	Plug NF 16 A 3P 230 V IP44	MEN0442
	Connector NF 16 A 3P 230 V IP44	MEN0452

IP44 semi flush-mounted receptacles, 20° angle

Photo	Designation	Ref. TwinCONTACT	Screw ref.
	16 A 3P 230 V	MEN1632	MEN1463
	16 A 4P 400 V	MEN1638	MEN1467
	16 A 5P 400 V	MEN3473	MEN1473
	32A 4P 400 V	MEN1740	MEN1496
	32A 5P 400 V	MEN1746	MEN1500
	63 A 4P 400 VAC with pilot contact	-	MEN1151P
	63 A 5P 400 VAC with pilot contact	-	MEN1155P

IP67 semi flush-mounted receptacles, 20° angle

Photo	Designation	Ref. TwinCONTACT	Screw ref.
	16 A 3P 230 V	MEN1701	MEN1475
	16 A 4P 400 V	MEN1704	MEN1479
	16 A 5P 400 V	MEN3485	MEN1485
	32A 4P 400 V	MEN1805	MEN1506
	32A 5P 400 V	MEN1808	MEN1551

PowerTOP® Xtra IP54 plugs and connectors

ErgoCONTACT® screw terminals with screw-on cap

Photo		3P 230 V	4P 400 V	5P 400 V
	16 A	MEN13502	MEN13506	MEN13510
	32 A	MEN13513	MEN13516	MEN13520
	16 A	MEN14502	MEN14506	MEN14510
	32 A	MEN14513	MEN14516	MEN14520

PowerTOP® Xtra S IP54 plugs and connectors

SafeCONTACT® self-stripping terminals with screw-on cap

Photo		3P 230 V	5P 400 V
	16 A	MEN13521	MEN13522
	32 A		MEN13523
	16 A	MEN14521	MEN14522
	32 A		MEN14523

AM-TOP® IP67 plugs and connectors

One-piece body, screw terminals, standard use

Photo		3P 230 V	4P 400 V	5P 400 V
	16 A	MEN278	MEN282	MEN288
	32 A	MEN290	MEN294	MEN300
	16 A	MEN540	MEN544	MEN550
	32 A	MEN552	MEN556	MEN562

IP44 top entry surface-mounted receptacles

Photo	Designation	Ref. TwinCONTACT	Screw ref.
	16 A 3P 230 V	MEN1341	MEN27001
	16 A 4P 400 V	MEN1343	MEN27002
	16 A 5P 400 V	MEN31	MEN27004
	32A 4P 400 V	MEN1348	MEN27006
	32A 5P 400 V	MEN32	MEN27008

IP67 surface-mounted receptacles

Enclosure base can be turned through 180°, cable entry(ies) at the top and/or bottom, resistant to chemicals

Photo	Designation	Ref. TwinCONTACT	Screw ref.
	16 A 3P 230 V	MEN9105	MEN9301
	16 A 4P 400 V	MEN9122	MEN9322
	16 A 5P 400 V	MEN9142	MEN9342
	32A 4P 400 V	MEN9172	MEN9372
	32A 5P 400 V	MEN9182	MEN9382

Amaxx, the combined distribution board adapted to all requirements.

Can be installed by a single person. Reduced installation time thanks to the external mounting brackets.

The hinged cover opens to the side for easy wiring.

The sliding DIN rails free up plenty of space, significantly facilitating the routing and connection of large cross-section cables.

All combined distribution boards are pre-wired and delivered with a factory compliance certificate.

Padlockable window and sealable enclosure.

Particularly quick opening and closing of the housing thanks to the dual-thread captive screws.

Threaded and blanked cable entries top and bottom.

Reference	Nbr NF 16 A 230 V 2P+E sockets	Nbr CEE 16 A 5 P 400 V sockets	Number of CEE 32 A 400 V sockets		Protection devices	Connection cross-section	Enclosure dimensions in mm (H x W)	Photo
			4P	5P				
MEN910205	2				1 25 A 2P 30 mA RCD 2 16 A P+N C curve CBs	1 cable up to 3 x 6 mm ²	130 x 225	
MEN920043	3				1 40 A 4P 30 mA RCD 3 16 A P+N C curve CBs	1 flexible cable up to 5 x 6 mm ² or 1 rigid cable up to 5 x 10 mm ²	260 x 225	
MEN921065	4				1 40 A 4P 30 mA RCD 4 16 A P+N C curve CBs	1 flexible cable up to 5 x 6mm ² or 1 rigid cable up to 5 x 10mm ²	260 x 225	
MEN920283	2	1			1 40 A 4P 30 mA RCD 1 16 A 3P+N C curve CBs 2 16 A P+N C curve CBs	1 flexible cable up to 5 x 6 mm ² or 1 rigid cable up to 5 x 10 mm ²	260 x 225	
MEN930036	2	2			1 40 A 4P 30 mA RCD 2 16 A 3P+N C curve CBs 2 16 A P+N C curve CBs	1 flexible cable up to 5 x 16 mm ² or 1 rigid cable up to 5 x 25 mm ²	390 x 225	
MEN920294	2			1	1 40 A 4P 30 mA RCD 1 32 A 3P+N C curve CBs 2 16 A P+N C curve CBs	1 flexible cable up to 5 x 6 mm ² or 1 rigid cable up to 5 x 10 mm ²	260 x 225	
MEN920044	2		1		1 40 A 4P 30 mA RCD 1 32 A 3P C curve CBs 1 16 A P+N C curve CBs	1 flexible cable up to 5 x 6 mm ² or 1 rigid cable up to 5 x 10 mm ²	260 x 225	
MEN930035	2	1		1	1 40 A, 4P, 0.03 A, type A RCD 1 32 A, 3P+N, C curve CBs 1 16 A, 3P+N, C curve CBs 2 16 A, 1P+N, C curve CBss	for 1 cable up to 5 x 25 mm ²	390 x 225	
MEN933692	4	1			1 40 A, 4P, 0.03 A, type A RCD 1 16 A, 3P+N, C curve CBs 2 16 A, 1P+N, C curve CBss	for 2 cables up to 5 x 25 mm ² or for 2 flexible cables up to 5 x 16 mm ²	390 x 225	
MEN933694	4			1	1 40 A, 4P, 0.03 A, type A RCD 1 32 A, 3P+N, C curve CBs 2 16 A, 1P+N, C curve CBss	for 2 cables up to 5 x 25 mm ² or for 2 flexible cables up to 5 x 16 mm ²	390 x 225	
MEN930038A	4			1	1 40 A 4P 30 mA RCD 1 32 A 3P+N C curve CBs 1 16 A P+N C curve CBs 1 MN undervoltage release emergency stop	1 flexible cable up to 5x10 mm ² or 1 rigid cable up to 5x16 mm ²	390 x 225	
MENAS860915	5				1 25 A 2P 30 mA RCD/MCB, emergency stop	2 m HO7RNF-3G2.5 and NF 230 V 16 A 2P+E plug	400 x 200	

All the references shown are IN STOCK as are the stands

IEC 309 HP: Innovation, reliability and performance

"Safe-Lock" quick assembly system in 16 and 32 A, ergonomic integrated cable clamp.

High-quality halogen-free technopolymer, nickel-plated pins and inserts, individually packaged.

IP66/IP67 + IP68 plugs and coupler sockets: deep immersion + IP69: high-temperature high-pressure water jet.

NEW: 3P+E and 3P+N+E plugs in 16 and 32 A with phase inverter (WH)

General characteristics				Straight plugs		Straight coupler sockets		10° angled flush-mounted socket outlets		10° angled surface-mounted socket outlets
Standards: EN 60309-1 and EN 60309-2 Impact resistance: Plugs, connectors and flush-mounted socket outlets = IK09 Other products = IK08 Operat. temp.: -25°C to +40°C				 GEWGW60004H		 GEWGW62004H		 GEWGW62205H		 GEWGW62404
IP	In (A)	Un (VAC) 50/60 Hz	Poles	Screw connection	Quick connection	Screw connection	Quick connection	Screw connection	Quick connection	Screw connection
IP44	16	20 to 25	2P	*GW60064		*GW62064		*GW62265		*GW62456
		200 to 250	2P+E	*GW60004H	*GW60004FH	*GW62004H	*GW62004FH	*GW62205H	*GW62205FH	*GW62404
		380 to 415	3P+E	*GW60008WH	*GW60008FH	*GW62008H	*GW62008FH	*GW62209H	*GW62209FH	*GW62408
	32	200 to 250	3P+N+E	*GW60009WH	*GW60009FH	*GW62009H	*GW62009FH	*GW62210H	*GW62210FH	*GW62409
		380 to 415	2P+E	*GW60015H	*GW60015FH	*GW62015H	*GW62015FH	*GW62216H	*GW62216FH	*GW62415
		380 to 415	3P+E	*GW60019WH	*GW60019FH	*GW62019H	*GW62019FH	*GW62220H	*GW62220FH	*GW62419
IP67 ⁽¹⁾	16	200 to 250	3P+N+E	*GW60020WH	*GW60020FH	*GW62020H	*GW62020FH	*GW62221H	*GW62221FH	*GW62420
	32	200 to 250	2P+E	*GW60026H	*GW60026FH	*GW62026H	*GW62026FH	*GW62227H	*GW62227FH	*GW62426
		380 to 415	3P+E	*GW60030WH	*GW60030FH	*GW62030H	*GW62030FH	*GW62231H	*GW62231FH	*GW62430
	63	380 to 415	3P+N+E	*GW60031WH	*GW60031FH	*GW62031H	*GW62031FH	*GW62232H	*GW62232FH	*GW62431
	125	200 to 250	2P+E	*GW60037H	*GW60037FH	*GW62037H	*GW62037FH	*GW62238H	*GW62238FH	*GW62437
	32	380 to 415	3P+E	*GW60041WH	*GW60041FH	*GW62041H	*GW62041FH	*GW62242H	*GW62242FH	*GW62441
	63	380 to 415	3P+N+E	*GW60042WH	*GW60042FH	*GW62042H	*GW62042FH	*GW62243H	*GW62243FH	*GW62442
	125	200 to 250	2P+E	*GW61048H		*GW63048PH		*GW63249PH		*GW63448
	32	380 to 415	3P+E	*GW61052H		*GW63052PH		*GW63253PH		*GW63452
	63	380 to 415	3P+N+E	*GW61053H		*GW63053PH		*GW63254PH		*GW63453
	125	380 to 415	3P+E	*GW60060H		*GW62060PH		*GW62261PH		*GW62534
	32	380 to 415	3P+N+E	*GW60061H		*GW62061PH		*GW62262PH		*GW62535

* Add the prefix GEW

(1) The plugs and connectors in the IEC 309 HP range satisfy IP66/IP67/IP68/IP69
The 63 A and 125 A have a pilot contact.

Empty distribution box - IP65 / IK09

Reference	Type	Nbr of modules	Pre-cut cover for	Ext. dim. W x H x D (mm)
GEWGW68003N	Q-DIN 10	10	2 16 A sockets + 2 16/32 A sockets	435 x 220 x 96
GEWGW68004N	Q-DIN 14	14	smooth surface	360 x 320 x 120
GEWGW68005N			3 16 or 32 A sockets	360 x 320 x 120
GEWGW68008N			6 16 or 32 A sockets	510 x 320 x 120
GEWGW68013N	Q-DIN 20	20	8 16 or 32 A sockets	560 x 450 x 120



GEWGW68003N



GEWGW68005N



GEWGW68008N

Additional products

General Characteristics				Flush-mounted socket outlet	Adapters	
				GEWGW27403  GEWGW20207	 GEWGW64203	 GEWGW64209
IP	In (A)	Un (VAC) 50/60 Hz	Poles	NF domestic pinout	Industrial => domestic	Domestic => industrial
IP65 ⁽²⁾	16	230 to 240	2P+E	GEWGW27403 + GEWGW20207		
IP44		200 to 250	2P+E		GEWGW64203	GEWGW64209
		380 to 415	3P+E			
			3P+N+E			

(2) IP44 plug connected

RJ45 MFP8 Cat.6A male plug

Service life: ≥ 750 cycles

Tool-free crimping

Contact finish material: 0.8 μm gold-plated steel; 1.2 μm nickel underlayer

Conductor shielding material: nickel-plated zinc die-cast

Copper conductor diameter: 0.51-0.64 mm single strand (AWG 24/1 - 22/1)
or 0.46 - 0.76 mm multi-strand (AWG 27/7 - 22/7)

Dismantling and reassembly for reuse: 4 cycles

Temperature: $-40\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$

High power over Ethernet plus (PoE+) according to IEEE 802.3at

Reference	Designation
TELJ00026A2001	RJ45 MFP8 Cat.6A male plug
TELJ00026A5001	RJ45 MFP8 Cat.6a male plug (with cable gland)
TELJ00026A4001	RJ45 MFP8 Cat.6A male plug 4 x 90° angle (with cable gland)
TEL100039916	Slim line RJ45 MFP8-SL Cat.6A male plug



RJ45 keystone jacks

10 Gbit/s jacks (RJ45 jack) Cat. 6a

Jacks for panels and front panels or empty wall boxes

Tool-free crimping

Universal connection system (KEYSTONE)

Adapted to PoE+ (High Power over Ethernet)

Earth terminal, compatible with RJ11 and 12, T568B wiring

Reference	Designation
TELJ00029A2001	AMJ-S 10 Gbit Cat. 6a (UL) jack
TELJ00029A0077	AMJ-K 10 Gbit Cat. 6a jack
TELLANKSF181C6	1 Gbit/s Cat. 6 jack
TELJ00029A6001	Slim line AMJ-SL Cat. 6a jack



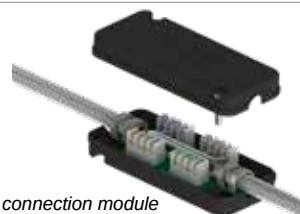
Industrial connection module (1000 MHz)

The connection module enables fixed wiring for any type of multi-strand or single-strand cable from AWG22/1 to AWG27/7 without impacting the transmission properties.

Reference	Designation
TELJ80060A0000	Connection module VM-Pro 8-8 IP67 Cat. 7a Class FA AWG27-22
TELJ00060A0069	1 connection module VM8-8 IP20 Cat. 7a



View of a splice with the VM-Pro 8-8
TELJ80060A0000



1 connection module
VM8-8 IP20 Cat. 7a
TELJ00060A0069



Stainless steel IP69K or nickel-plated brass, copper and optical fibre available.
Contact us.

SUB D (solder cups) - Machined contacts

Nbr of contacts	Male connector to solder	Female connector to solder	Straight metal hood with locking screws	45° metal hood with locking screws	Straight plastic hood with locking screws
9	MHCMHF09P0G3	MHCMHF09S0G3	MHCMHDTZK9K	MHCMHD45ZK9K	MHCMHDPPK9K
15	MHCMHF15P0G3	MHCMHF15S0G3	MHCMHDTZK15K	MHCMHD45ZK15K	MHCMHDPPK15K
25	MHCMHF25P0G3	MHCMHF25S0G3	MHCMHDTZK25K	MHCMHD45ZK25K	MHCMHDPPK25K
37	MHCMHF37P0G3	MHCMHF37S0G3	MHCMHDTZK37K	MHCMHD45ZK37K	MHCMHDPPK37K



We also offer...



Safety PLCs - Fail-safe direct starter
Safety networks: PROFISAFE



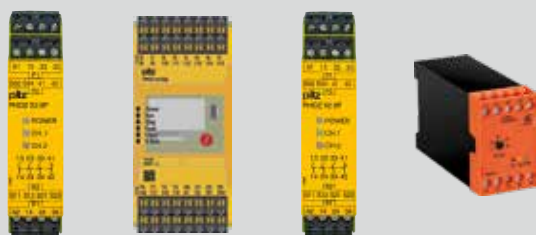
Visual and audible alarms



Safety light curtains



Safety switches and hinges - Multi-channel switches



Safety relays -
Fast braking relays by direct current injection



Sensitive edges - Safety mat



Pull-cord safety switches -
Two-handed controls - Emergency stop button



Personal protection/lockout equipment -
Lockout and signage

OUR PARTNERS...



SENSORS AND SAFETY

TITLE	BRAND	PAGE
Photoelectric cells	DATASENSING	G.2
Inductive sensors	DATASENSING	G.3
SG4 Light curtains.....	DATASENSING	G.4
SLIM Light curtains.....	DATASENSING	G.5
Light towers	AUER SIGNAL.....	G.6
LED lights - Buzzers - Multi-tone sirens.....	AUER SIGNAL.....	G.8
Ultrasonic sensors.....	PEPPERL+FUCHS.....	G.10
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Inductive sensors	PEPPERL+FUCHS	G.12
Safety mats - Sensitive edges	BBC BIRCHER	G.13
Safety relays and configurable control systems	PILZ.....	G.14
Magnetic and coded safety sensors, safety systems for interlocking movable guards	PILZ.....	G.15
RFID sensors, interlocking, safety modules	SCHMERSAL.....	G.16
Mechanical switches, hinged switches, magnetic sensors	SCHMERSAL.....	G.17
Photoelectric cells, magneto-inductive sensors	TURCK BANNER.....	G.18
Lighted emergency stop buttons, sensitive two-hand controls.....	TURCK BANNER.....	G.19
P.P.E.....	CATU	G.20
PLUTO safety PLCs.....	ABB JOKAB.....	G.22
Safety switches.....	BERNSTEIN	G.23
Position switches	COMEPI	G.24

S5N series - M18 tubular plastic housing with axial optic

Reference	Model	Optical function	Range	Output	Connection
DAS952001001	S5N-PA-5-M03-PP	Background suppression	5/15 cm	PNP 4 wires*	M12 connector
DAS952001021	S5N-PA-5-B01-PP	Polarised retro-reflective	0.1/4.5 m	PNP 4 wires*	M12 connector
DAS952001271	S5N-PA-5-T01-PP	Retro-reflective for transparent object	0.1/1.7 m	PNP 4 wires*	M12 connector
DAS952001061	S5N-PA-5-C01-PP	Long-range proximity	0/70 cm	PNP 4 wires*	M12 connector
DAS952001101	S5N-PA-5-D00-PP	Fixed focus proximity	0.5/10 cm	PNP 4 wires*	M12 connector
DAS952001161	S5N-PA-5-F01-PP	Receiver	0/20 m	PNP 4 wires*	M12 connector
DAS952001201	S5N-PA-5-G00-XG	Emitter	0/20 m		M12 connector
DAS952002101	S5N-PA-5-A00-PP	Retro-reflective	0.1/5 m	PNP 4 wires*	M12 connector

*Power supply 10...30 VDC



S5N series – M18 flat tubular plastic housing with radial optic

Reference	Model	Optical function	Range	Output	Connection
DAS952001041	S50-PR-5-B01-PP	Polarised retro-reflective	0.1/4.5 m	PNP 4 wires*	M12 connector
DAS952001291	S50-PR-5-T01-PP		0.1/3 m	PNP 4 wires*	M12 connector

*Power supply 10...30 VDC



S5N series – M18 tubular metal housing, Laser

Reference	Model	Optical function	Range	Output	Connection
DAS952001371	S5N-PL-5-B01-PP	Polarised retro-reflective laser	0.1/16 m	PNP 4 wires*	M12 connector
DAS952001391	S5N-PL-5-C01-PP	Laser proximity	0/35 cm	PNP 4 wires*	M12 connector
DAS952001411	S5N-PL-5-F01-PP	Laser receiver	0/60 m	PNP 4 wires*	M12 connector
DAS952001431	S5N-PL-5-G00-XG	Laser emitter	0/60 m		M12 connector

*Power supply 10...30 VDC

S100 series – UNIVERSEL miniature photoelectric sensor

Reference	Model	Optical function	Range	Output	Connection
DAS950811170	S100-PR-5-B00-PK	Short-distance polarised retro-reflective	2 m	PNP	M8 connector
DAS950811250	S100-PR-5-FG00-PK	Through-beam	12 m	PNP	M8 connector
DAS950811150	S100-PR-5-A00-PK	Retro-reflective	8 m	PNP	M8 connector
DAS950810003	S100-PR-5-M10-OZ	Background suppression	3/20 cm	IO-LINK	M8 connector

*Power supply 10...30 VDC



S3Z series – High-performance miniature laser sensor

Reference	Model	Optical function	Range	Output	Connection
DAS95B010500	S3Z-PH-5-M01-P	Laser background suppression	40/300 mm	PNP	M8 connector
DAS95B010540	S3Z-PH-5-FG01-P	Laser emitter	0/30 m	PNP	M8 connector
DAS95B010460	S3Z-PH-5-B01-P	Polarised retro-reflective laser	0.3/10 m	PNP	M8 connector



Optical function			
Through beam		Diffuse proximity (short distance)	
Polarised retro-reflective (short distance)		Diffuse proximity (long distance)	
Polarised retro-reflective (long distance)		Background suppression	
Retro-reflective		Fixed focus proximity	





Detection distance in mm

Models	M4	M5	M6.5	M8	M12	M18	M30	SQUARE
Diameter (mm)	4	5	6.5	8	12	18	30	M48 x 8; 40 x 40
Detection distance (mm)	0.8	0.8 to 1.5	1 to 3	1.5 to 3	2 to 8	5 to 14	10 to 20	1.5 to 30

Housing dimensions in mm

Models	Standard		Short	
	connector	cable	connector	cable
M4	---	25	---	---
M5	40	20 to 25	---	---
M6.5	53 to 63	46 to 55	50 to 54	40 to 44
M8	52 to 73	44 to 55	48 to 57	40 to 44
M12	68 to 72	58 to 64	48 to 54	42 to 48
M18	73 to 82	70 to 78	56 to 65	47 to 56
M30	74 to 85	70 to 82	56 to 68	49 to 56

Applications

This product range was developed to meet the needs of the reference applications below:

- Automatic machines
- Packaging lines
- Conveyor belt lines
- Automated warehouses
- Automotive sector



Selection of standard products

Reference	Models	Range (mm)	Output	Connection	Installation	Length (mm)	Stainless steel	Nickel-plated brass	Format (mm)
DAS95B061011	IS-04-A1-03	0.8	PNP-NO	Cable length 2 m	N	25	•		M4
DAS95B061001	IS-04-A3-03	0.8	NPN-NO	Cable length 2 m	N	25	•		
DAS95B061051	IS-05-A1-S1	0.8	PNP-NO	M8 connector	N	40	•		M5
DAS95B066080	IS-65-M1-S1	1.5	PNP-NO	M8 connector	N	50	•		M6.5
DAS95B066850	IS-08-G1-S1	2	PNP-NO	M8 connector	N	50		•	M8
DAS95B066580	IS-08-G1-S2	2	PNP-NO	M12 connector	N	53		•	
DAS95B066370	IS-08-G1-03	2	PNP-NO	Cable length 2 m	N	40		•	
DAS95B066960	IS-08-H1-S1	3	PNP-NO	M8 connector	NN	54		•	
DAS95B062051	IS-12-B1-S2	2	PNP-NO	M12 connector	N	48		•	M12
DAS95B064060	IS-12-A0-S2	2	PNP/NPN NO-NC	M12 connector	N	67		•	
DAS95B060240	IS-12-M1-S2	2	PNP-NO	M12 connector	N	48	•		
DAS95B063371	IS-12-G1-S2	4	PNP-NO	M12 connector	N	48		•	
DAS95B063391	IS-12-G2-S2	4	PNP-NC	M12 connector	N	48		•	
DAS95B063361	IS-12-G1-03	4	PNP-NO	Cable length 2 m	N	42		•	
DAS95B063441	IS-12-H1-03	8	PNP-NO	Cable length 2 m	NN	48		•	M18
DAS95B063451	IS-12-H1-S2	8	PNP-NO	M12 connector	NN	54		•	
DAS95B063531	IS-18-G1-S2	8	NPN-NO	M12 connector	N	56		•	M30
DAS95B063521	IS-18-G1-03	8	PNP-NO	Cable length 2 m	N	47		•	
DAS95B063681	IS-30-G1-03	15	NPN-NO	Cable length 2 m	N	49		•	M30
DAS95B063771	IS-30-H1-S2	20	PNP-NO	M12 connector	NN	68		•	
DAS95B065240	IS-40-W5-S3	15	PNP NO-NC	To wire	N	118		•	40 x 40

N = Flush-mounted version

NN = Non-flush-mounted version

Protection rating: IP67

SG4 BASE series

Included: emitter, receiver, fastening bracket


DATALOGIC
 EMPOWER YOUR VISION

Reference	Designation	Height	Resolution	Manufacturer ref.
DAS957901470	Type 4 safety light curtain	300 mm	14 mm FINGER PROTECTION	SG4-14-030-OO-X
DAS957901010	Type 4 safety light curtain	300 mm	14 mm FINGER PROTECTION	SG4-14-030-OO-E
DAS957901490	Type 4 safety light curtain	600 mm	14 mm FINGER PROTECTION	SG4-14-060-OO-X
DAS957901030	Type 4 safety light curtain	600 mm	14 mm FINGER PROTECTION	SG4-14-060-OO-E
DAS957901510	Type 4 safety light curtain	900 mm	14 mm FINGER PROTECTION	SG4-14-090-OO-X
DAS957901050	Type 4 safety light curtain	900 mm	14 mm FINGER PROTECTION	SG4-14-090-OO-E
DAS957901530	Type 4 safety light curtain	1200 mm	14 mm FINGER PROTECTION	SG4-14-120-OO-X
DAS957901080	Type 4 safety light curtain	1350 mm	14 mm FINGER PROTECTION	SG4-14-135-OO-E
DAS957901550	Type 4 safety light curtain	1500 mm	14 mm FINGER PROTECTION	SG4-14-150-OO-X
DAS957901100	Type 4 safety light curtain	1650 mm	14 mm FINGER PROTECTION	SG4-14-165-OO-E
DAS957901570	Type 4 safety light curtain	1800 mm	14 mm FINGER PROTECTION	SG4-14-180-OO-X

The heights are not all listed above. Manufacturer ref. characteristic: -X: 0 use with a safety relay, -E: with EDM relay

For resolutions of 14 and 30 mm, the available heights are: 150, 300, 450, 600, 750, 900, 1050, 1200, 1350, 1500, 1650, 1800 mm

**SG4 EXTENDED, SG2 MUTING series**

DATALOGIC
 EMPOWER YOUR VISION

Reference	Designation	Height	Resolution	Manufacturer ref.
DAS957801700	Type 2 safety light curtain	300 mm	30 mm FINGER PROTECTION	SG2-30-030-OO-W
DAS957801800	Type 2 safety light curtain	1800 mm	30 mm FINGER PROTECTION	SG2-30-180-OO-W
DAS957901240	Type 4 safety light curtain	300 mm	14 mm FINGER PROTECTION	SG4-14-030-OO-P
DAS957901290	Type 4 safety light curtain	1050 mm	14 mm FINGER PROTECTION	SG4-14-105-OO-P
DAS957901450	Type 4 safety light curtain	1800 mm	30 mm FINGER PROTECTION	SG4-30-180-OO-P

**“L” system**

Reference	Model	Description
DAS957951060	SG4-RB2L-050-OO-W	Active - 2 beams, centre distance 500 mm - “L” configuration
DAS957951130	SG4-RDB2L	Passive - 2 beams, centre distance 500 mm - “L” configuration
DAS957951070	SG4-RB3L-080-OO-W	Active - 3 beams, centre distance 400 mm - “L” configuration
DAS957951140	SG4-RDB3L	Passive - 3 beams, centre distance 400 mm - “L” configuration

**“T” system**

Reference	Model	Description
DAS957951080	SG4-RB2T-050-OO-W	Active - 2 beams, centre distance 500 mm - “T” configuration
DAS957951150	SG4-RDB2T	Passive - 2 beams, centre distance 500 mm - “T” configuration
DAS957951090	SG4-RB3T-080-OO-W	Active - 3 beams, centre distance 400 mm - “T” configuration
DAS957951160	SG4-RDB3T	Passive - 3 beams, centre distance 400 mm - “T” configuration

**Accessories**

Reference	Model	Description
DAS95A252720	CS-A1-10-U-03	M12 cable – 12 poles (axial) – 3 m
DAS95ASE1270	CSME-03VU24-Y14	EDM relay (3 NO – 240 VAC/6 A max.)
DAS95ACC6170	SE-SR2	Type 4 safety relay – 3 NO /1 NC

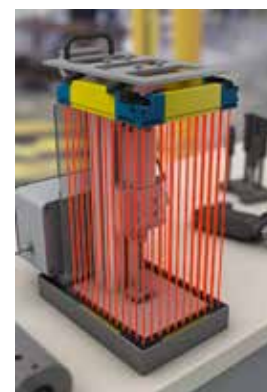


SL2/4 SLIM series

Reference	Designation	Height (mm)	Resolution	Manufacturer ref.
DAS957911020	Type 2 safety light curtain	150	14 mm finger protection	SL2-14-0150-E
DAS957911050		300		SL2-14-0300-E
DAS957911150		600		SL2-14-0600-E
DAS957911250		900		SL2-14-0900-E
DAS957911310		1080		SL2-14-1080-E
DAS957911330		1140		SL2-14-1140-E
DAS957911350		1200		SL2-14-1200-E
DAS957910000	Type 4 safety light curtain	150		SL4-14-0150-E
DAS957910030		300		SL4-14-0300-E
DAS957910130		600		SL4-14-0600-E
DAS957910230		900		SL4-14-0900-E
DAS957910290		1080		SL4-14-1080-E
DAS957910310		1140		SL4-14-1140-E
DAS957910330		1200		SL4-14-1200-E

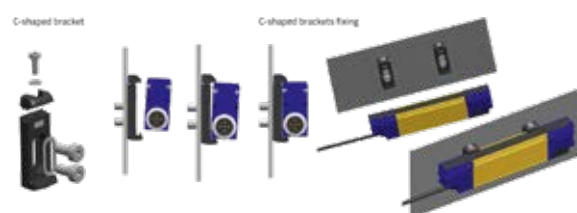
The heights are not all listed above.

For resolutions of 14, 24, 34 mm, the available heights are: 150, 210, 270, 300, 330, 360, 390, 420, 450, 480, 510, 540, 570, 600, 630, 660, 690, 720, 750, 780, 810, 840, 870, 900, 930, 960, 990, 1020, 1050, 1080, 1110, 1140, 1170, 1200 mm.



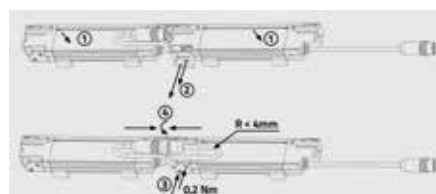
Brackets

Reference	Model	Description
DAS95ASE2510	ST-K2-SL-C	C-shaped brackets (included): 2 piece kit
DAS95ASE2520	ST-K4-SL-O	O-shaped brackets (included): 4 piece kit
DAS95ASE2540	ST-K2-SL-L	L-shaped brackets: 2 piece kit

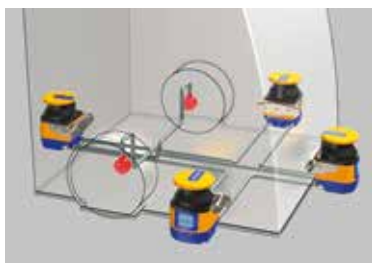


Cascade connection

Reference	Model	Length (m)
DAS95A252950	CS-H1-03-B-001	0.1
DAS95ASE2550	CS-H1-03-B-005	0.5
DAS95ASE2560	CS-H1-03-B-01	1



Sentinel security scanner



PC7 LIGHT TOWERS - MODULPERFECT

Diam 70mm - IP66 - Black housing - UL/CSA

New high-end range, up to 7 times more effective than the products on the market. Enables the assembly of 7 modules with advanced functions.

Light modules in 7 different colours plus a multi-coloured module. Audio modules 112 tones or MP3.

All modules use 24VDC. The various power supply voltages are managed by a module to be added at the base, enabling the number of references to be rationalised.

This series is designed to replace the **ModulSIGNAL70** range in the medium term.

LED light modules

Description	Intermediate modules		Top module	
Fixed	PC7DC	JAU91001C405	---	---
Steady / flashing (by switch)	---	---	PC7DCB	JAU91011C405
Strobe / multi-strobe (by switch)	---	---	PC7DFB	JAU91012C405
Multi-function (steady, flashing, strobe, multi-strobe-by switches)	PC7DF	JAU91002C405	---	---
Rotating light effect - 2 speeds (by switch)	PC7DR	JAU91003C405	PC7DRB	JAU91013C405
Multi-colours (7 colours controlled externally)	PC7DM	JAU910040405	PC7DMB	JAU910140405

C = Colour code for the light modules

1 = orange

2 = red

4 = transparent

5 = blue

6 = green

7 = yellow

8 = magenta



PC7DC



PC7DCB

Audio modules

Description	Intermediate modules		Top module	
Piezo technique, 1 of 8 tones selected by switches	PC7ZI	JAU910520405	PC7ZM	JAU910510405
Electronic siren, 112 tones, external control of 7 types of tone	---	---	PC7TD	JAU910530405
MP3 / voice message module - 7 messages or tunes	---	---	PC7VS	JAU910540405



PC7ZI

BASES AND VOLTAGE MODULES

The power supply voltage is selected by the via the base, by adding a converter module.

To make a complete base, two references must be selected: A base + a voltage converter module

Base

Description	Reference	
Simple base for horizontal mounting	PC7MW	JAU910710900
Simple base for horizontal mounting with pre-mounted screws	PC7MS	JAU910720900
Simple base with bracket for vertical mounting	PC7MV	JAU910730900
Base on alu tube and plastic foot	Tube 100 mm	PC7MR JAU910742900
Base on alu tube and plastic foot	Tube 250mm	PC7MR JAU910743900
Base on alu tube + screws	Tube 100 mm	PC7RS JAU910752900
Base on alu tube + screws	Tube 250mm	PC7RS JAU910753900



PC7MW



PC7MR

Voltage converter modules

Description	Reference	Reference
24 VAC/DC - 1 to 7 modules	PC7BLV	JAU910771405
110/230 VAC - 1 to 3 modules	PC7BHV3	JAU910772313
110/230 VAC - 4 to 7 modules	PC7BHV7	JAU910773313



PC7BLV



PC7BHV7

COMPLETE BASES

Some connection modes require the base to be factory-wired.

For the references below, the base is delivered complete with its voltage converter module

Description	Reference	
Base in diam. M30 with 5-pin M12 connector, 24 VDC	PC7MC5	JAU910781405
Base in diam. M30 with 8-pin M12 connector, 24 VDC	PC7MC8	JAU910782405
24 VDC base with alu. tube + "quick-fit" foot	Tube 100 mm	PC7FR JAU910792405
24 VDC base with alu. tube + "quick-fit" foot	Tube 250mm	PC7FR JAU910793405



PC7FR



PC7MC8

Accessories

Description	Reference	
Diffuser films (pack of 2 - for 1 module)	PC7LD	JAU910000900
MS70/PC7 adapter module	PC7TM	JAU910800900
Metal bracket + cable gland for tube base + PC7RS screws	XSS	JAU900700900
Plastic bracket for PC7RS	XWR	JAU900600900
Metal bracket for PC7MW base	WZC	JAU200550900



XSS



XWR

LIGHT TOWERS



IP66 modular light towers - Black housing

Designation	Voltage	Part reference for tower Ø					
		40 mm		60 mm		70 mm	
Light modules							
Steady LED light (Integrated LEDs)	24 VAC/DC	ZDC	JAU90201C405	YDC	JAU90101C405	XDC	JAU90001C405
	230/240 VAC		JAU90201C313		JAU90101C313		JAU90001C313
Flashing LED light (Integrated LEDs)	24 VAC/DC	ZDA	JAU90202C405	YDA	JAU90102C405	XDA	JAU90002C405
	230/240 VAC		JAU90202C313		JAU90102C313		JAU90002C313
LED strobe light (Integrated LEDs)	24 VAC/DC	ZDF	JAU90203C405	YDF	JAU90103C405	XDF	JAU90003C405
	230/240 VAC		JAU90203C313		JAU90103C313		JAU90003C313
LED multi-strobe light (Integrated LEDs)	24 VAC/DC	ZFF	JAU90204C405				
	230/240 VAC		JAU90204C313				
Audio modules							
Continuous/intermittent buzzer	24 VDC	ZDE	JAU902500405	YDE	JAU901500405	XDE	JAU900500405
	230 VAC		JAU902500313		JAU901500313		JAU900500313
Multi-tone module (8 tones)	24 VAC/DC					XDM	JAU900520405
	230/240 VAC						JAU900520313
Bases							
Horiz. surface-mounted base		ZMW	JAU902570900	YMW	JAU901570900	XMW	JAU900570900
Vert. surface-mounted base	1 direction	ZMV	JAU902573900	YMV	JAU901573900	XMV	JAU900573900
Vert. surface-mounted base	2 directions	ZZV	JAU902574900	YZV	JAU901574900	XZV	JAU900574900
Base + alu. tube L =100 +foot		ZMR	JAU902582900	YMR	JAU901582900	XMR	JAU900582900
Bracket for base + alu tube + foot		XWR	JAU900600900	XWR	JAU900600900	XWR	JAU900600900
5-position snap-off indicator panel		XIB	JAU900850900	XIB	JAU900850900	XIB	JAU900850900

HALF DOME 90 pre-mounted light towers

All the advantages of the LED light tower with a new "half-dome" design L = 90 mm
IP65 (IP66 pre-wired version available on request).

Designation (grey housing)	Reference
2 lights, steady green, steady red, 24 VDC	JAUHD90-Q02
2 lights, steady green, steady red, 230 VAC	JAUHD90-Q52
3 lights, steady green, steady orange, steady red, 24 VDC	JAUHD90-Q01
3 lights, steady green, steady orange, steady red, 230 VDC	JAUHD90-Q61

Other standard configurations are available from AUER.

Configurations can also be created on request - Contact us -

3 power supply voltages possible: 12 VDC, 24 VDC, 110 VAC, 230 VAC. Grey, black or chrome-painted housing.



VISUAL ALARMS

"P"range

Steady lights IP67 / 69, flashing or strobe, Ø75 mm, LED or Xenon.

2 configurations: high or compact glass. Direct mounting on bracket or foot

Designation	Reference	
	Compact glass	High glass
Steady/flashing LED light - 24 VAC/DC	JAU86150C405	JAU86050C405
Steady/flashing LED light - 230/240 VAC	JAU86150C313	JAU86050C313
Multi-strobe LED light - 24 VAC/DC	JAU86151C405	JAU86051C405
Multi-strobe LED light - 230/240 VAC	JAU86151C313	JAU86051C313
Multi-function LED light (steady, flashing, strobe, rotating) M12 - 24 VAC/DC		JAU86054C405
Xenon strobe light (2J) - 10-100 VDC / 20-70 VAC	JAU86152C410	JAU86052C410
Xenon strobe light (2J) - 230/240 VAC	JAU86152C313	JAU86052C313
Steady multi-coloured LED light (red-orange-green) 24 VAC/DC		JAU860550405
Steady multi-coloured LED light (red-orange-green) 230/240 VAC		JAU860550313
PVW - Bracket for vertical mounting	JAU860600900	JAU860600900
PMR - Foot + alu tube H100 mm	JAU860702900	JAU860702900



C = glass or lamp colour

1 = orange

2 = red

4 = transparent

5 = blue

6 = green

7 = yellow

"R" series: Ø110 mm modular LED light composed of a light element to be combined with a base (mechanical or audio)

IP66 - IK08 - Power supply voltages: 12 -24 - 48 VAC/DC - 110/240 VAC - Operating temperature -30 / +60°C

Single-colour light - up to 28 operating modes in 4 groups of 7 - external operation of 7 different functions.

Remarkable signalling effect - luminous power -> 184 Cd (depending on the colour)

High glass version: 2 luminous power levels. Compact glass version: "frosted" effect for more comfortable light diffusion.

		24 VAC/DC	24/48 VAC/DC	110/230 VAC	
Glass Compact	Light elements				
	RDC - Steady LED light	JAU85060C405		JAU85060C313	 RBA RBH
	RDM - multi-function LED light	JAU85051C405		JAU85051C313	
	RDMHP - Multi-function, high-performance LED light	JAU85052C405		JAU85052C313	 R series
	RMM - 7-colour LED light		JAU850530408	JAU850530313	
	RCDM - Multi-function LED light		JAU85056C408	JAU85056C313	
	RCMM - 7-colour LED light		JAU850570408	JAU850570313	
Bases					
	RBA - Audio base, IP66, 32 tones, up to 103 dB	JAU850535408		JAU850535313	
Mechanical bases					
	RBL - Simple base, bottom cable entry	JAU850500900			
	RBH - High base, bottom or side cable entry, mounted on Ø25 mm smooth pole	JAU850510900			
	RBHNPT as for RBH, but for 1/2 NPT threaded tube	JAU850515900			
Accessories					
	RWD - Design bracket for RBL base only	JAU850520900	RG1 - Flat gasket for RBL or RBH base	JAU850590900	
	RWU - Painted stainless steel bracket for RBL or RBH bases	JAU850521900	AKV - M20 cable gland	JAU698800026	
	RWA - Stainless steel bracket for RBA audio base	JAU850531900	RKV - M16 cable gland	JAU850590920	
	RG2 - Flat gasket for wall-mounted RWD base	JAU850590910			

"Q" series

Square steady, flashing, multi-function, strobe, multi-strobe LED light, IP66, IK08, 4 sizes

T1: 94 x 94 - T2: 132 x 132 - T3: 184 x 184 - T4: 228 x 228

Housings can be combined with other lights or sirens of the same size using the AMK kit (JAU874010900) to create a signalling assembly.

Specially designed glass for optimum light diffusion from both front and side.

If mounted on a smooth surface exposed to the weather, the addition of the AG flat gasket is recommended.

Designation		24/48 VAC/DC	110/240 VAC
QBS - T1 multi-function LED light (steady, flashing, strobe, multi-strobe, twinkling)	-> 64 Cd	JAU87417C408	JAU87417C313
QBM - T2 multi-function LED light (steady, flashing, strobe, multi-strobe, twinkling)	-> 120 Cd	JAU87427C408	JAU87427C313
Designation		24 VAC/DC	230-240 VAC
QDS - T1 steady/flashing LED light	-> 30 Cd	JAU87416C405	JAU87416C313
QDM - T2 steady/flashing LED light	-> 60 Cd	JAU87426C405	JAU87424C313



QDM



QDM lights assembled using AMK kits

VISUAL ALARMS

"N" range LED lights

Ø 90 mm, IP65/67, steady/flashing or strobe/multi-strobe lights. 4 different mounting options: on horizontal or vertical surface, tube or magnetic mounting

Designation	Reference
NES - Steady/flashing LED light 24-48 VAC/DC	JAU44010C408
NES - Steady/flashing LED light 110-240 VAC/DC	JAU44010C413
NFS - strobe/multistrobe LED light 24-48 VAC/DC	JAU44210C408
NFS - strobe/multistrobe LED light 230-240 VAC/DC	JAU44210C313
NMS - Multi-coloured LED light (red yellow green) 24 VAC/DC	JAU441100405
NMS - Multi-coloured LED light (red yellow green) 48 VAC/DC	JAU441100408
NMS - Multi-coloured LED light (red yellow green) 230-240 VAC/DC	JAU441100313

Also available in high-performance version - excellent signalling effect, even outdoors
Other power supply voltages possible: Contact us



Colour code = C 1 = orange 2 = red 4 = transparent 5 = blue 6 = green 7 = yellow

Flush-mount buzzers Ø22.5 – IP65 – Plug-in terminal

Model	dB	Ø	Buzzer	Colour	12/24 VDC	230/240 VAC
ESK	65	30	Continuous / pulsed	Black	JAU812500405	JAU812500313
ESV	85	30	Continuous / pulsed	Black	JAU812510405	JAU812510313
ESM	85-100	45	Continuous / pulsed	Black	JAU813500405	JAU813500313
ESG	85-105	65	Continuous / pulsed	Black	JAU814500405	JAU814500313

Also available in grey housing. Other voltages possible. Contact us



"A" series multi-tone sirens

IP66 – Fixed or adjustable wall-mounted with AB metal bracket.

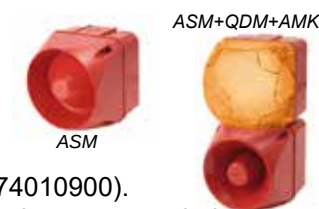
The electronic sirens allow the external control of 3 different tones.

Can be combined with other "Q" series sirens or lights of the same size using the AMK kit (JAU874010900).

If mounted in a position exposed to the weather on a smooth surface, the use of an AG flat gasket is recommended.

Designation	Dimensions	dB	Nbr. tones	Voltages	Reference		
					Siren	AB bracket	AG flat gasket
ASS-P T1 piezo siren	94 x 94	103	8	24 VAC/DC	JAU874060405	JAU874031900	JAU874021900
ASS-P T1 piezo siren	94 x 94	103	8	230/240 VAC	JAU874060313	JAU874031900	JAU874021900
ASS-T T1 electronic siren	94 x 94	108	32	24/48 VAC/DC	JAU874170408	JAU874031900	JAU874021900
ASS-T T1 electronic siren	94 x 94	108	32	110/240 VAC	JAU874170313	JAU874031900	JAU874021900
ASM T2 electronic siren	132 x 132	132	32	24/48 VAC/DC	JAU874270408	JAU874032900	JAU874022900
ASM T2 electronic siren	132 x 132	132	32	110/240 VAC	JAU874270313	JAU874032900	JAU874022900

Also available in size 3 (184 x 184 - 120 dB 63 tones) and size 4 (228 x 228 - 127 dB - 63 tones) + other voltages possible - Contact us.



Electromechanical horns

Classic horn sound, widely used in industry.

Model	Designation	dB	IP	24 VDC	230 VAC
KLH	Mini horn with cone	92	IP43	JAU710100005	JAU710100113
KDH	Mini horn without cone	92	IP43	JAU710000005	JAU710000113
HPT	Horn	108	IP55	JAU712100005	JAU712100113
HTG	Metal horn	108	IP65	JAU713100005	JAU713100113

Available in many other AC and DC power supply voltages. Contact us



Light/sound combinations:

A and Q square series

Model	Designation	24 VDC	110/240 VAC	230/240 VAC
ADS-T	Siren + steady/flashing light signal - T1	JAU87517C405	JAU87517C313	
ACM	Siren + strobe light signal - T2	JAU87567C405		JAU87567C313
QCS	T1 multi-function light + 85 dB buzzer	JAU87617C405		JAU87617C313
QCM	T2 multi-function light + 100 dB buzzer	JAU87627C405		JAU87627C313

Available in many other AC and DC power supply voltages. Contact us



We offer many other light / tone combinations.

Do not hesitate to consult your usual contact.



M12 cylindrical sensors (10-30 VDC) – M12 4-pole connector - IP67

Reference	Designation	Range (mm)	Direct	Retro-reflective	Teach-in	Nbr. of outputs	Output
PEP182234	UB200-12GM-E5-V1	15 ... 200	•	•	•	1	NO or NC
PEP182235	UB200-12GM-I-V1	15 ... 200	•		•	1	4-20 mA

**M18 cylindrical sensors (10-30 VDC) - IP67**

Reference	Designation	Range (mm)	Direct	Retro-reflective	Teach-in	Nbr. of outputs	Output	M12 4p	M12 5p
PEP220357	UB300-18GM40-E5-V1	35 ... 300	•	•	•	1	NO or NC	•	
PEP220360	UB300-18GM40-I-V1	35 ... 300	•		•	1	4-20 mA	•	
PEP130228	UB500-18GM75-E6-V15	30 ... 500	•	•	•	2	NO and NC		•
PEP205343	UB800-18GM40-E5-V1	50 ... 800	•	•	•	1	NO or NC	•	
PEP204535	UB1000-18GM75-I-V15	70 ... 1000	•		•	1	4-20 mA		•

**M30 cylindrical sensors (10-30 VDC) – M12 5-pole connector - IP65**

Reference	Designation	Range (mm)	Direct	Retro-reflective	Teach-in	ULTRA 3000	Nbr. of outputs	Output
PEP097969	UB2000-30GM-E5-V15	80 ... 2000	•	•	•		1	NO or NC
PEP104093	UC2000-30GM-IUR2-V15	80 ... 2000	•		•	•	2	4-20 mA / 0...10 V
PEP102159	UC2000-30GM-E6R2-V15	80 ... 2000	•	•	•	•	2	NO and NC
PEP102161	UC4000-30GM-E6R2-V15	200 ... 4000	•	•	•	•	2	NO and NC
PEP104094	UC4000-30GM-IUR2-V15	200 ... 4000	•		•	•	2	4-20 mA / 0...10 V
PEP102163	UC6000-30GM-E6R2-V15	350 ... 6000	•	•	•	•	2	NO and NC
PEP104095	UC6000-30GM-IUR2-V15	350 ... 6000	•		•	•	2	4-20 mA / 0...10 V

**Parallelepiped sensors**

Reference	Designation	Range (mm)	Direct	Teach-in	Nbr. of outputs	Output
F42 80 x 80 mm sensors (10-30 VDC) – M12 5-pole connector - IP54						
PEP134001	UB4000-F42-E6-V15	200 ... 4000	•	•	2	NO and NC
PEP134003	UB4000-F42-I-V15	200 ... 4000	•	•	1	4-20mA
L2 40 x 40 mm sensor (10-30 VDC) – M12 5-pole connector - IP67						
PEP277765	UC2000-L2-E6-V15	60 ... 2000	•	•	2	NO and NC
F77 31 x 12 mm sensor (24 VDC) – M8 4-pole connector - IP67						
PEP233250	UB250-F77-E2-V31	20 ... 250	•	•	1	NO



Reference: PEP097450
UB-PROG2 programming
for UB type sensors



Reference: PEP114760
UC-30GM-R2 cable for
UC....-30GM-..R2-V15
type sensors



The ULTRA 3000 software
can be downloaded free
of charge on the Pepperl+
Fuchs website

Capacitive sensors

No-contact detection of metallic and non-metallic objects

Cable outlet, connector or cable gland

IP67

except for PEP210625 & PEP046476 in IP65



Reference	Designation	Format	Length (mm)	Installation	Nominal range Sn (mm)	Signal	Output	Connection					Supply voltage	Housing material
								Cable	Direct M8	Direct M12	Cable + M8	Nbr wires		
PEP210625	CBN8-12GH60-E2-V1	M12	61.2	NN	8	PNP	NO			•		3	10-36 VDC	Stainless steel
PEP237039	CBB8-18GK75-E2-V1	M18	88.5	N	1...8 ▲	PNP	NO			•		3	10-30 VDC	PBT
PEP237043	CBN15-18GK75-E2-V1		88.5	NN	2...15 ▲	PNP	NO			•		3	10-30 VDC	PBT
PEP189958	CCN15-30GS60-A2-V1	M30	72.5	NN	15	PNP	NO and NC			•		4	10-60 VDC	Stainless steel
PEP237549	CBB10-30GK60-E2		60	N	10	PNP	NO	2 m				3	10-30 VDC	PBT
PEP234026	CBB10-30GKK-A2		115	N	10	PNP	NO and NC	Screw terminal block				4	10-30 VDC	ABS
PEP234027	CBB10-30GKK-W		115	N	10		NO or NC	Screw terminal block				2	20-250 VAC	ABS
PEP263265	CBN15-F64-A2	40 x 25 x 12 mm		NN	15	PNP	NO and NC	2 m				4	10-30 VDC	PBT
PEP046476	CJ40-FP-A2-P1	91 x 80 x 52.5 mm		NN	40	PNP	NO and NC	Screw terminal block				4	10-60 VDC	PBT/POM

▲: range adjustment with integrated potentiometer

Accessories

Reference	Designation	Product	
PEP036708	ST 03	Sensor tester LED and buzzer to indicate switching	
PEP000049	BF 12	M12 mounting flange with adjustment range (max 11 mm)	
PEP000050	BF 18	M18 mounting flange with adjustment range (max 20 mm)	
PEP000051	BF 30	M30 mounting flange with adjustment range (max 18 mm)	
PEP091198	BF 5-30	Mounting flange for cylindrical sensor 5 to 30 mm Mounting head and foot can be rotated through 360°	
PEP103104	MH 02-L	Mounting bracket for DIN rail	

No-contact detection of metallic objects
Cable outlet, connector or cable gland
IP67 for cylindrical sensors and some IP68



Reference	Designation	Format	Length (mm)	Installation	Nominal range S _n (mm)	Signal	Output	Connection					Supply voltage	Housing material
								Cable	Direct M8	Direct M12	Cable + M8	Nbr wires		
PEP206385	NBB1-4GM22-E2	M4	22	N	1	PNP	NO	2 m				3	10-30 VDC	Stainless steel
PEP224132	NBB1-4GM22-E2-0, 3M-V3		22		1						300 mm	3		
PEP202166	NBB1.5-5GM25-E2	M5	25	N	1.5	PNP	NO	2 m				3	10-30 VDC	Stainless steel
PEP224136	NBB0.8-5GM25-E2-0.3M-V3		25		0.8						300 mm	3		
PEP204745	NBB1.5-5GM25-E2-V3		38		1.5				•			3		
PEP304615-0007	NBB2-6.5M30-E2	Ø6.5	30	N	2	PNP	NO	2 m				3	5-30 VDC	Ni-plated brass
PEP304615-0008	NBB2-6.5M30-E2-0.15M-PUR-V3		30		2						150 mm	3	5-30 VDC	Stainless steel
PEP304615-0021	NBB2-6.5S35-E2-V3		45		2				•			3	5-30 VDC	
PEP250532	NRB2-6.5S40-E2-V3		52		2 ▲				•			3	10-30VDC	
PEP304615-0055	NBB2-8GM40-E2	M8	40	N	2	PNP	NO	2 m				3	5-30 VDC	Ni-plated brass
PEP304615-0068	NBB2-8GM50-E2		50	N	2			2 m				3	5-30 VDC	Stainless steel
PEP304615-0226	NBB2-8GH20-E2-V3		35	N	2				•			3	5-30 VDC	
PEP304615-0059	NBB2-8GM40-E2-V3		55	N	2				•			3	5-30 VDC	Ni-plated brass
PEP304615-0046	NBB2-8GM30-E2-V1		55	N	2					•		3	5-30 VDC	
PEP304615-0058	NBB2-8GM40-E2-V1		65	N	2					•		3	5-30 VDC	
PEP304615-0186	NEN6-8GM40-E2-PUR		40	NN	6			2 m				3	5-30 VDC	
PEP304615-0119	NBN3-8GM30-E2		30	NN	3			2 m				3	5-30 VDC	
PEP304615-0188	NEN6-8GM40-E2-V3		55	NN	6				•			3	5-30 VDC	
PEP250525	NRB2-8GS40-E2-V3		52	N	2 ▲				•			3	10-30 VDC	Stainless steel
PEP326161-0015	NBB4-12GM30-E2	M12	33.2	N	4	PNP	NO	2 m				3	5-36 VDC	Brass, white bronze coating
PEP326161-0002	NBB4-12GM50-E2		53.2	N	4	PNP		2 m				3		
PEP326161-0014	NBB4-12GM30-E2-V1		44.5	N	4	PNP				•		3		
PEP326161-0001	NBB4-12GM50-E2-V1		64.5	N	4	PNP				•		3	10-30 VDC	Ni-plated brass
PEP231715	NBB6-12GM50-E2-V1		60		6	PNP				•		3		
PEP326161-0054	NBN8-12GM50-E2		53.2	NN	8	PNP		2 m				3	5-36 VDC	Brass, white bronze coating
PEP326161-0052	NBN8-12GM50-E2-V1		64.5	NN	8	PNP				•		3	5-36 VDC	Stainless steel
PEP264602	NRB4-12GS40-E2-V1		55	N	4 ▲	PNP				•		3	10-30 VDC	Stainless steel
PEP197866	NBB4-12GM75-US		79	N	4			2 m				2 ▼	20...250 VAC 20...300 VDC	Ni-plated brass
PEP326161-0096	NBB8-18GM30-E2	M18	35.9	N	8	PNP	NO	2 m				3	5-36 VDC	Brass, white bronze coating
PEP326161-0088	NBB8-18GM50-E2		55.9	N	8	PNP		2 m				3		
PEP326161-0087	NBB8-18GM50-E2-V1		66	N	8	PNP				•		3		
PEP326161-0095	NBB8-18GM30-E2-V1		46	N	8	PNP				•		3		
PEP326161-0131	NBN12-18GM50-E2		55.9	NN	12	PNP		2 m				3		
PEP326161-0130	NBN12-18GM50-E2-V1		66	NN	12	PNP				•		3	10-30 VDC	Stainless steel
PEP264613	NRB8-18GS40-E2-V1		55	N	8 ▲	PNP				•		3		
PEP198076	NBB8-18GM60-US		63	N	8			2 m				2 ▼	20...250 VAC 20...300 VDC	Ni-plated brass
PEP326161-0155	NBB15-30GM30-E2	M30	40.3	N	15	PNP	NO	2 m				3	5-36 VDC	Brass, white bronze coating
PEP326161-0147	NBB15-30GM50-E2		60.3	N	15	PNP		2 m				3		
PEP326161-0146	NBB15-30GM50-E2-V1		67.2	N	15	PNP				•		3		
PEP326161-0173	NBN25-30GM50-E2		59.1	NN	25	PNP		2 m				3		
PEP326161-0174	NBN25-30GM50-E2-V1		66	NN	25	PNP				•		3	10-30 VDC	Stainless steel
PEP261031	NRB15-30GS50-E2-V1		65	N	15 ▲	PNP				•		3		
PEP198088	NBB15-30GM50-US		51	N	15			2 m				2 ▼	20...250 VAC 20...300 VDC	Ni-plated brass
PEP087719	NBB2-V3-E2	IP67	27.8 x 16 x 10 mm	N	2	PNP	NO	130 mm				3	10-30 VDC	PBT
PEP085651	NBB1.5-F41-E2	IP67	40 x 8 x 8 mm	N	1.5		NO	2 m				3		Ni-plated brass
PEP085652	NBB1.5-F41-E2-V3	IP67	55 x 8 x 8 mm	N	1.5		NO		•			3		Ni-plated brass
PEP187548	NBB20-L2-A2-V1	IP68/IP69K	67 x 40 x 40 mm	N	20		NO and NC			•		4		PA
PEP120992	NBN40-L2-A2-V1	IP68/IP69K	67 x 40 x 40 mm	NN	40		NO and NC			•		4		PA
PEP194782	NBB15-U1-A2	IP68/IP69K	118 x 40 x 40 mm	N	15		NO and NC	Screw terminal block				4		PA / metal
PEP194771	NBB20-U1-E2	IP68/IP69K	118 x 40 x 40 mm	N	20		NO	Screw terminal block				3		PA / metal
PEP194788	NBN40-U1-A2	IP68/IP69K	118 x 40 x 40 mm	NN	40		NO and NC	Screw terminal block				4		PA / metal
PEP187486	NCB40-FP-A2-P1	IP68	91 x 80 x 40 mm	N	40		NO and NC	Screw terminal block				4	10-60 VDC	PBT

▲ : factor 1

▼ : 2 wires + earth

ES-Button: Flat button

Black/yellow polyurethane - IP67 - Operating temperature +5°C to +50°C

Activation force 35 N - Cable length 5 m

Reference	Designation	Dimensions (mm)
BIR210970	ES-Button: Flat button	150 x 150 x 15



ES-Button

Sensitive safety mats

Polyurethane (PUR) - Colours: black, grey or yellow.

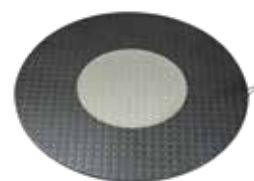
Permissible load: 1x2000N/cm² - IP67 (without cable ends)

ESM-52D: 8 standard sizes available - black - active grip surface.

ESM-54D/G: for rectangular intermediate sizes with active grip surface or smooth surface.



ESM-52D safety mats - Standard shapes		
Reference	Designation	Dimensions (mm)
BIR211708	ESM-52D	1000 x 1000
BIR211712	ESM-52D	1200 x 500
BIR211713	ESM-52D	1200 x 750
BIR211710	ESM-52D	1200 x 1000
BIR211711	ESM-52D	1200 x 1250
BIR211715	ESM-52D	1600 x 500
BIR211716	ESM-52D	1600 x 750
BIR211714	ESM-52D	1600 x 1000
ESM-54D/G safety mats - Standard shapes: select L x W		
Length x width: max. 1600 x 1000 mm or max. 1200 x 1200 mm, min. 200 x 200 mm		



Sensitive safety edges

Material: EPDM or NBR - Available factory-assembled or for self-assembly - IP65

ENT-R contact strip: for damp environments or for high mechanical loads

End pieces available: cable, with or without 8.2 kΩ resistor



Designation	Material	Dimensions W x H (mm)	Activation force	Activation distance	Designation	Dimensions W x H (mm)
StandardLine - Rubber profiles with standard foot					Aluminium rail	
ELE025/020A0K/length	EPDM	29 x 21	70 N	3 mm	AP-5	25 x 12.5
ELE025/029A0K/length	EPDM	29 x 30	80 N	7 mm	AP-5	25 x 12.5
ELN025/029A0K/length	NBR	29 x 30	80 N	7 mm	AP-5	25 x 12.5
ELE036/060A0D/length	EPDM	39 x 60	90 N	5 mm	AP-4	32 x 18
ClickLine - Rubber profiles with click-fit foot					Aluminium rail	
ELE025/029A0V/length	EPDM	29 x 30	70 N	7 mm	AP-5	25 x 12.5
ELE030/042A0V/length	EPDM	30 x 42	60 N	6 mm	AP-5	25 x 12.5
ELE036/045A0V/length	EPDM	36 x 45	50 N	10 mm	AP-8	32 x 12.5
ELE036/065A0V/length	EPDM	36 x 65	110 N	10 mm	AP-8	32 x 12.5
CoverLine - Aesthetic design rubber profile with covered aluminium profile					Aluminium rail	
ELE040/067A0J/length	EPDM	43 x 67	60 N	5 mm	AP-G1	36 x 13
ELE040/105A0J/length	EPDM	45 x 105	70 N	5 mm	AP-G1	36 x 13



StandardLine



ClickLine



CoverLine

PNOZ X safety relay

Reference	Designation	Intended use	Characteristics
PIL774310	PNOZ X3 24 VAC 24 VDC	Emergency stop, housing	Single- or dual-channel control, 3 NO + 1 NC + 1 digital
PIL774300	PNOZ X1 24 VAC/DC 3n/	Emergency stop, housing	Single-channel control, 3 NO + 1 NC
PIL777301	PNOZ X2.8P 24 VAC/DC 3	Emergency stop, housing, light curtain	Single-channel or dual-channel control, 3 NO + 1 NC
PIL777302	PNOZ X2.8P 24-240 VAC	Emergency stop, housing	Single-channel or dual-channel control, 3 NO + 1 NC
PIL774306	PNOZ X2.1 24 VAC/DC 2	Emergency stop, housing	Dual-channel control, 2 NO
PIL774059	PNOZ X7 24 VAC/VDC 2n/o	Emergency stop, housing	Single-channel control, 2 NO
PIL777949	PSWZ X1P 0.5V/ 24-240 VAC/DC	Safe standstill monitoring	By remanent voltage, 2 NO + 1 NC + 1 digital



PNOZsigma safety relay

Reference	Designation	Intended use	Characteristics
PIL750102	PNOZ s2 24 VDC	Emergency stop, housing	Single-channel control, 3 NO + 1 NC + 1 digital
PIL750103	PNOZ s3 24 VDC	Emergency stop, housing, light curtain	Single-channel or dual-channel control, 2 NO + 1 digital
PIL750104	PNOZ s4 24 VDC	Emergency stop, housing, light curtain	Single- or dual-channel control, 3 NO + 1 NC + 1 digital
PIL751104	PNOZ s4C 24 VDC	Emergency stop, housing, light curtain	Single- or dual-channel control, 3 NO + 1 NC + 1 digital
PIL750105	PNOZ s5 24 VDC	Emergency stop, housing, light curtain	Single- or dual-channel control, 2 NO + 2 NO with time delay
PIL750107	PNOZ s7 24 VDC	Expansion module	4 NO + 1 NC
PIL750106	PNOZ s6 24 VDC	Two-handed control	EN 574, type IIIC, 3 NO + 1 NC + 1 digital
PIL750109	PNOZ s9 24 VDC	Time delay contact expansion	delay on, delay off, pulse on switching on
PIL750330	PNOZ s30 24-240 VAC/VDC	Speed and standstill monitoring	For HTL, TTL, sin/cos encoders or inductive sensors, 2 NO + 2 NC + 4 digital



PNOZmulti 2 control systems

Reference	Designation	Intended use	Characteristics
PIL772105	PNOZ m C0	Base module, non-expandable	8 safety inputs, 4 digital safety outputs
PIL772104	PNOZ m B0.1	Base module, expandable 1 module on the right, 4 on the left	20 safety inputs 4 digital safety outputs
PIL772100	PNOZ m B0	Base module, expandable	20 safety inputs 4 digital safety outputs
PIL772101	PNOZ m B1	Base module, expandable	CPU with 4 test pulse outputs, expansion 12 modules
PIL772140	PNOZ m EF 16DI	Safety input module	16 safety inputs
PIL772142	PNOZ m EF 8DI4DO	Digital safety I/O module	8 safety inputs, 4 digital safety outputs
PIL772143	PNOZ m EF 4DI4DOR	Safety relay I/O module	4 safety inputs, 4 safety relay outputs
PIL772146	PNOZ m EF 2DOR	Relay outputs module	2 relay outputs
PIL772160	PNOZ m EF 4AI	Module with 4 analogue inputs	4 safety analogue current inputs
PIL772144	PNOZ m EF 8DI2DOT	2-pole input/output module	8 safety inputs, 2 2-pole outputs 2 tests
PIL772170	PNOZ m EF 1MM	Safety monitoring of 1 axis	Speed, stopping of rotation, EN 61800-5
PIL772121	PNOZ m EF PDP Link	PDP67 decentralised module	Max. 4 link modules max. 4 decentralised modules
PIL772120	PNOZ m EF Multi Link	Safety link module	32 bit exchanges, virtual inputs/outputs
PIL773616	PDP 67 F 8DI ION PT	Decentralised module	8 safety inputs, standard outputs, IP67
PIL772138	PNOZ m ES ProfiNET	Siemens COM module	100 Mbits/s transmission speed
PIL772132	PNOZ m ES Profibus	Siemens COM module	12 Mbits/s transmission speed
PIL772137	PNOZ m ES EtherNet/Ip	Communication module	10 Mbits/s and 100 Mbits/s transmission speed



PNOZ m B0.1



PNOZ m C0



Configuration with PNOZmulti Configurator V11 software with OFF-LINE simulation tool. Communication modules: EtherCAT, CAN, Powerlink available
Choice of spring-loaded or screw connectors according to the references. Contact us.

Approved up to PL e according to EN ISO 13849-1 and SIL CL 3 according to EN/IEC 62061 according to application.

PSENmag magnetic safety sensors

Reference	Designation (sensor/actuator)	Distance		ATEX	Type of male connector / cable connection
PIL504220	PSEN 1.1p-20-PSEN 1.1-20	8 mm	2		M8, 4 pins
PIL504222	PSEN 1.1p-22-PSEN 1.1-20	8 mm	2		M8, 4 pins
PIL504228	PSEN 1.1a-22/-PSEN 1.1-20	8 mm	2		5 m cable, assembly with PSENix1
PIL502221	PSEN 2.1p-21/-PSEN 2.1-20	8 mm			M8, 4 pins, 1 NO, 1 NC
PIL504223	PSEN 1.1p-23/PSEN 1.1-20	8 mm	2	x	M8, 4 pins
PIL506322	PSEN ma1.4a-50/PSEN ma1.4-10	10 mm	2		5 m cable
PIL506334	PSEN ma1.4p-50/PSEN ma1.4-10	10 mm	2		M8, 4 pins, 20 cm pigtail
PIL506342	PSEN ma1.4n-50/PSEN ma1.4-10	10 mm	2		M12, 5 pins, 13 cm pigtail
PIL506220	PSEN ma1.3a-20/PSEN ma1.3-08	8 mm	3		5 m cable*
PIL506228	PSEN ma1.3n-20/PSEN ma1.3-08	8 mm	3		M12, 5 pins, 13 cm pigtail*

* M12 housing



PIL50422x



PIL506334



PIL50622x

PSENcode coded safety sensors

Reference	Designation (sensor/actuator)	Type of coding*	Type of connection
PIL540000	PSEN cs1.1p/PSEN cs1.1	Simple coded	M12 male connector, 8 pins
PIL541010	PSEN cs3.1p/PSEN cs3.1	Simple coded	M8 male connector, 8 pins**
PIL541009	PSEN cs3.1 M12/8-0.1	Simple coded	M12 male connector, 8 pins**
PIL542009	PSEN cs5.1 M12/8/PSEN cs5.1 M12	Simple coded	M12 male connector, 8 pins
PIL542011	PSEN cs5.11 M12/8/PSEN cs5.11 M12 (with magnetic latching)	Simple coded	M8 male connector, 8 pins
PIL541003	PSEN c3.1n/PSEN cs3.1	Simple coded	M12 male connector, 5 pins**

* Available in fully coded and unique fully coded versions

** 15 cm pigtail cable



PIL542009



PIL541009

Safety systems for PSENslock mobile protectors

Reference	Designation (sensor/actuator)	Interlocking force	Type of coding*	Power consumption	Type of connection (male connectors)
PIL570500	PSEN sl-0.5p 1.1/PSEN sl-0.5	500 N	Simple coded	4.8 W	M12, 8 pins
PIL570560	PSEN sl-0.5p 1.1/PSEN sl-0.5fm	500 N	Simple coded	4.8 W	M12, 8 pins
PIL570600	PSEN sl-1.0p 1.1/PSEN sl-1.0	1.000 N	Simple coded	7.2 W	M12, 8 pins
PIL570630	PSEN sl-1.0p 1.1 VA/PSEN sl-1.0	1.000 N	Simple coded	7.2 W	M12, 8 pins
PIL570503	PSEN sl-0,5n 1.1 / PSEN sl-05	500 N	Simple coded	4.8 W	M12, 5 pins

* Available in fully coded and unique fully coded versions



PIL5705xx



PIL5706xx

Safety systems for PSENml mobile protectors with interlocking

Reference	Designation	Characteristics	Type of coding*
PIL570400	PSEN ml b 1.1	7500 N, M12 pigtail	coded
PIL570402	PSEN ml b2.1	7500 N, M12 pigtail	fully coded
PIL570404	PSEN ml b 2.2	7500 N, M12 pigtail	unique fully coded
PIL60000005	PSEN ml DHM down l 1.1	Left panic handle, cable outlet to the bottom	coded
PIL60000007	PSEN ml DHM down r 1.1	Right panic handle, cable outlet to the bottom	coded
PILG1000021	PIT gb RLLE y down ETH	2 pushbuttons +1 emergency stop +Pitreader access authorisation, M12	
PILG1000001	PIT gb LLE*	3 pushbuttons + 1 emergency stop pushbutton, M12	

* Available in fully coded and unique fully coded versions



PIL570460



PIL60000005

PILG1000001

RFID sensors - AP type SRB safety modules (inputs for static outputs with voltage)

Plastic housing, IP67, 24 VDC; standard or high actuator coding (I1 or I2), up to Cat. 4 / PLe.

Reference	Designation	Latching / Coding	PNP safety + diagnostic outputs	Assured operating distance	Elect. connection / cable gland	Dimensions (mm)
SCM101213954	RSS36-D-ST	no latching / standard	2+1	10 mm	M12 8-poles	106.33 x 25 x 22
SCM101216956	RSS36-I2-D-ST	no latching / individual	2+1	10 mm	M12 8-poles	106.33 x 25 x 22
SCM103003602	RSS260-D-ST	no latching / standard	2+1	10 mm	M8 8-poles	40 x 18 x 29.5
Actuators (to be ordered separately)						
SCM101213820	RST36-1	actuator for RSS 36 without latching				
SCM103004318	RST260-1	actuator for RSS260				



RSS 36



RSS 260

Electromechanical interlocking - SP type SRB modules (voltage-free dry contact inputs)

Plastic housing, IP67. Manual release (variant: emergency release)

Coil voltage: 24 VDC (variant 110 VAC, 230 VAC), up to Cat. 3 / PLd with appropriate Schmersal module.

Reference	Designation	Release principle / coding	Coil / switch contacts	Holding and latching forces	Elect. connection / cable gland	Dim. (mm)
SCM153032120	AZM150SK-02/02R-24VDC	Power to unlock / (*)	2 NC/ 2 NC	1500 N / 50 N	Terminal block / M20	204 x 40 x 48
SCM153032126	AZM150SK-02/02RA-024VDC	Power to lock / (*)	2 NC/ 2 NC	1500 N / 50 N	Terminal block / M20	204 x 40 x 48
SCM101164207	AZM161SK-12/12RK-24 VAC/DC	Power to unlock / (*)	1 NO+2 NC / 1 NO+2 NC	2000 N / 30 N	Terminal block / M16	130 x 90 x 30
SCM101166285	AZM161SK-12/12RKA-24 VAC/DC	Power to lock / (*)	1 NO+2 NC / 1 NO+2 NC	2000 N / 30 N		130 x 90 x 30
SCM101141020	AZM170-02ZRKA-24VAC/DC	Power to lock / (*)	2 NC	1000 N / 30 N	Terminal block / M20	90 x 84 x 30
SCM101140795	AZM170-02ZRK-24VAC/DC	Power to unlock / (*)	2 NC	1000 N / 30 N		90 x 84 x 30

Actuators (to be ordered separately)

SCM153033699	AZM150-B1	straight actuator for AZM150
SCM153033701	AZM150-B6	flexible actuator, 2 directions for AZM150
SCM101145117	AZM161-B1	straight actuator for AZM161
SCM101144420	AZM161-B6	flexible actuator, 2 directions for AZM161
SCM101122893	AZ17/170-B1	straight actuator for AZM170
SCM101123391	AZM170-B6	flexible actuator, 2 directions for AZM170

(*) Low actuator coding (variant I = high coding)



AZM 161



AZM 170



AZM 150



AZM 201



MZM100



AZM 300

Electronic safety interlocking
AP type SRB safety modules (inputs for static outputs with voltage)

Manual release (variant: emergency release) up to Cat. 4 / PLe

Reference	Designation	Release principle / low coding (*)	Holding / latching forces	Elect. connection / cable gland	Dim. (mm)
SCM103013909	AZM201Z-ST2-T-1P2PW	Power to unlock (*)	2000 N / -	Connection M12-8 poles	220 x 40 x 50
SCM103016753	AZM201Z-ST2-T-1P2PW-A	Power to lock (*)	2000 N / -	Connection M12-8 poles	220 x 40 x 50
SCM103001435	AZM300-Z-ST-1P2P	Power to unlock (*)	1000 N / 25 or 50 N	Connection M12-8 poles	100 x 85 x 35
SCM103001450	AZM300-Z-ST-1P2PA	Power to lock (*)	1000 N / 25 or 50 N	Connection M12-8 poles	100 x 85 x 35
SCM101211066	MZM100-ST2-1P2PW-REA	Power to lock	500 N / 30 to 100 N	Connection M12-8 poles	160 x 40 x 40

Actuators (to be ordered separately)

SCM103013498	AZ/AZM201-B30-LTAG1P1	handle + actuator for left hinged door for AZM201				
SCM103013494	AZ/AZM201-B1-RT	actuator for right sliding door for AZM201				
SCM103013497	AZ/AZM201-B30-RTAG1P1	handle + actuator for right hinged door for AZM201				
SCM101218025	AZ/AZM300-B1	standard actuator for AZM300				
SCM101204290	MZM100-B1.1	standard actuator for MZM100				

(*) Low actuator coding (variant I = high coding)

Safety modules

(safety level up to PLd / PLe according to wiring)

Reference	Designation	Type of inputs	Input contacts	Edge trigger	Short circuit detection	Time delay
SCM101177962	SRB301 LC/B	With / without voltage (SP / AP)	NC / NC	no	no	no
SCM103007672	SRB-E-301ST	With / without voltage (SP / AP)	NC / NC or NO / NC	yes	yes	no
SCM101172210	AES 1337	Voltage free (SP), only BNS	NO / NC	yes	configurable	no



Safety module

Switches with separate actuator - SP type SRB modules (inputs for voltage-free dry contacts)

Plastic housing, IP67, terminal block output (variant: M12); up to Cat. 3 / PLd with appropriate Schmersal module.

Reference	Designation	Switch / actuator coding	Contacts	Latching force	Elect. connection / cable gland	Dim. (mm)
SCM101152787	AZ15ZVK-M16	low	1 NC	-	Terminal block, M16	52 x 78 x 30
SCM101153619	AZ15ZVRK 30N-M16	low	1 NC	30 N	Terminal block, M16	52 x 78 x 30
SCM101152725	AZ16-12ZVK-M16	low	1 NO+2 NC	-	Terminal block, M16	52 x 90 x 30
SCM101154221	AZ16-12ZVRK 30N-M16	low	1 NO+2 NC	30 N	Terminal block, M16	52 x 90 x 30
SCM101157373	AZ16-12ZVRK 30N-M20	low	1 NO+2 NC	30 N	Terminal block, M20	52 x 90 x 30
SCM101150050	AZ16-12ZI-B1-M16	HIGH B1 actuator included	1 NO+2 NC	-	Terminal block, M16	52 x 90 x 30
SCM101121961	AZ17-02K	low	2 NC	-	Terminal block, M16	30 x 60 x 30
SCM101133968	AZ17-02ZRK 30N	low	2 NC	30 N	Terminal block, M16	30 x 60 x 30
SCM101136308	AZ17-02ZRI-B1	HIGH B1 actuator included	2 NC	30 N	Terminal block, M16	30 x 60 x 30



AZ 17

Actuators (to be ordered separately)

SCM101083036	AZ15/16-B1	straight actuator for AZ15 / AZ16
SCM101111081	AZ15/16-B1-2053	actuator with ball catch 0-10 N for AZ15 / AZ16
SCM101095558	AZ15/16-B2	flexible actuator, 1 direction for AZ15 / AZ16
SCM101137434	AZ15/16-B6	flexible actuator, 2 directions for AZ15 / AZ16
SCM101122893	AZ17/170-B1	straight actuator for AZ17
SCM101122895	AZ17/170-B5	angled actuator for AZ17



AZ 15/16



TESK

Hinged switch - SP type SRB modules (inputs for voltage-free dry contacts)

Metal housing. IP65, adjustable hinge: int/ext mounting, long hinge: mounting on panel (e.g. Plexiglass).

Up to Cat. 4 / PLe with appropriate Schmersal module.

Reference	Designation	Type of hinge / switching point	Contacts	Elect. connection / cable gland	Dim. (mm)
SCM103005763	TESK-SU-12-ST1	standard / adjustable	1 NO+2 NC	Connection M12, 8 poles	116 x 78 x 20
SCM103005737	TESK-LU-12-ST1	long / adjustable	1 NO+2 NC	Connection M12, 8 poles	116 x 98 x 20
SCM103002966	TESK-ZL	long hinge for TESC-L_ _ _ _			116 x 98 x 20
SCM103002968	TESK-ZS	standard hinge for TESC-S_ _ _ _			116 x 78 x 20

Magnetic sensors - SP type SRB safety modules (inputs for voltage-free dry contacts)

Plastic housing, IP67 (except BNS 40S INOX IP69K); up to Cat. 4 / PLe with appropriate Schmersal module.

Reference	Designation	Type of sensor	Contacts	Elect. connection / cable gland	Dim. (mm)
SCM101133729	BNS33-12-Z-2187 5M	Sensor without LED	1 NO+2 NC	5 m cable	88 x 25 x 13
SCM101142789	BNS33-12ZG-2187-5M	Sensor with LED	1 NO+2 NC	5 m cable	88 x 25 x 13
SCM101193249	BNS36-02/01-Z-STL	Left sensor without LED	3 NC	Connection M8, 6 snap-fit poles	88 x 25 x 13
SCM101190024	BNS36-02/01-Z-STR	Right sensor without LED	3 NC	Connection M8, 6 snap-fit poles	88 x 25 x 13
SCM101184378	BNS260-02/01-Z-STL	Left sensor without LED	3 NC	Connection M8, 6 snap-fit poles	36 x 26 x 13
SCM101184362	BNS260-02/01-Z-STR	Right sensor without LED	3 NC	Connection M8, 6 snap-fit poles	36 x 26 x 13
SCM103000651	BNS40S-12Z 5M	Stainless steel sensor w/o LED	1 NO+2 NC	5 m cable	88 x 27 x 14.5
SCM101186260	BNS-B20-12Z-ST-R	Sensor w/o LED for right handle	1 NO+2 NC	Connection M12, 8 poles	40 x 140 x 32.4
SCM101186261	BNS-B20-12Z-ST-L	Sensor w/o LED for left handle	1 NO+2 NC	Connection M12, 8 poles	40 x 140 x 32.4
SCM101178078	BNS120-02Z-5M	M12 uncoded sensor	2 NC	5 m cable	Ø12 x 38.50
SCM101150617	BNS180-12Z-2187-2-6M	M18 uncoded sensor	1 NO+2 NC	6 m cable	Ø18 x 36
SCM101166248	BNS303-12Z-2187-5M	M30 sensor without LED	1 NO+2 NC	5 m cable	Ø30 x 44

Actuators (to be ordered separately)

SCM101107771	BPS33	Standard switching distance actuator for BNS33, sao = 5 mm
SCM101148482	BPS33-2326	Higher switching distance actuator for BNS33, sao = 8 mm
SCM101190052	BPS36-1	Parallel approach actuator for BNS36, sao = 7 mm
SCM101191859	BPS36-2	Perpendicular approach actuator for BNS36, sao = 7 mm
SCM101184395	BPS260-1	Parallel approach actuator for BNS260, sao = 5mm
SCM101184396	BPS260-2	Perpendicular approach actuator for BNS260, sao = 5 mm
SCM101215268	BPS40S-1	Parallel approach actuator for BNS40S, sao = 8mm
SCM101215269	BPS40S-2	Perpendicular approach actuator for BNS40S, sao = 8 mm
SCM101177737	BNS-B20-B01	Handle with actuator for BNS-B20
SCM101057531	BP10	Uncoded magnet for BNS120 and BNS180



BNS 260



BNS 40S

T18-2 waterproof optical range

Hygienic format reducing crevices where debris can build up, IP69K housing

Electronic filled with epoxy, no condensation, ECOLAB certificate and approved by the FDA

Operating temperature: -40°C to +70°C - Power supply 10-30 VDC - M12 4-pole CONNECTION

PBT polyester housing with dimensions 30 x 31.5 x 50 mm

Reference	Designation	Mode and range	Output
TUR3802616	T18-2NAEL-Q8	25 m light curtain emitter	
TUR3802607	T18-2VPRL-Q8	25 m light curtain receiver	LO and DO PNP
TUR3802628	T18-2VPLP-Q8	Polarised retro-reflective 6 m	LO and DO PNP
TUR3802646	T18-2VPDS-Q8	Diffuse with potentiometer 300 m	LO and DO PNP
TUR3802640	T18-2VPDL-Q8	Diffuse with potentiometer 750 m	LO and DO PNP
TUR3802658	T18-2VPFF50-Q8	Fixed background suppression 50 mm	LO and DO PNP
TUR3802670	T18-2VPFFF100-Q8	Fixed background suppression 100 mm	LO and DO PNP
TUR3802682	T18-2VPFF200-Q8	Fixed background suppression 250 mm	LO and DO PNP

Available in other models. Contact us



Q4X laser triangulation sensor

Robust, versatile laser distance sensor

Highly reliable detection of opaque or transparent objects

Operating temperature: -10°C ... +50°C

Protection rating: IP67, IP68, IP69K FDA and ECOLAB certified

Housing material: 316L stainless steel housing

Lens: PMMA, Display: 1 line, 4 characters



Background suppression

Reference	Designation	Range	Power supply	Connection	Output
TUR3094118	Q4XTBLAF300-Q8	25-300 mm	10-30 VDC	M12 x 5 poles	1 digital PNP/NPN LO/DO
TUR3801918	Q4XTKLAF600-Q8	25-600 mm	10-30VDC	M12 x 4 poles	1 digital PNP/NPN LO/DO
TUR3802751	Q4XTILAF500-Q8	25-500 mm	10-30 VDC	M12 x 5 poles	1 4-20 mA analogue

Available in other models. Contact us

Q5X – Medium-range laser triangulation or time of flight

Powerful background suppression laser sensor for reliable medium-distance applications on all targets, even black,

Power supply: 10 to 30 VDC – Temperature: -10°C to +50°C

ABS housing - Protection rating: IP67

Reference	Designation	Technology	Range (mm)	Output	Connection
TUR3803693	Q5XKLAF2000-Q8	Triangulation	95...2000	Dual configurable digital PNP/NPN outputs with IO Link	M12 x 4 poles
TUR3807731	Q5XKLAF5000-Q8	Time of Light	95...5000	Dual configurable digital PNP/NPN outputs with IO Link	M12 x 4 poles
TUR3809367	Q5XKULAF3000-Q8	Triangulation	95...3000	1 x 0...10 V analogue + digital/IO-Link	M12 x 5 poles
TUR3809366	Q5XKILAF3000-Q8	Triangulation	95...3000	1 x 4...20 mA analogue + digital/IO-Link	M12 x 5 poles

BIM-UNT Magneto-inductive sensor

Operating temperature: -25°C to +70°C

Protection rating: IP67

PP housing with integrated LED



Reference	Designation	Output	Power supply	Connection	Dimension	Groove
TUR4685740	BIM-UNT-AP7X	PNP, NO	10...30 VDC	2 metre cable	5 x 6 x 28 mm	T
TUR4685723	BIM-UNT-AP6X-0.3-PSG3M	PNP, NO	10...30 VDC	M8 x 3 poles, 30 cm pigtail, screw ring	5 x 6 x 28 mm	T
TUR4685742	BIM-UNT-AP7X-0.3-PSG3S	PNP, NO	10...30 VDC	M8 x 3 poles, 30 cm pigtail, push-pull	5 x 6 x 28 mm	T

SSA – Emergency stop button with illuminated base

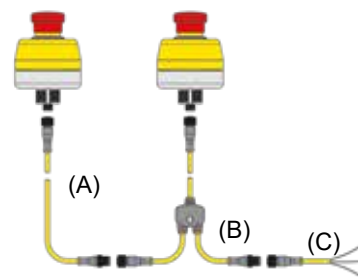
Integrated illuminated base with Flash/Steady function. Assists operators thanks to its brightness. Many standard and stainless steel brackets. Easy to install with M30 base and connection. Unique M12 connections. Integral IP69K silicone cover (FDA certified). Power supply voltage 24 VDC (12-30 VDC) - Type of connection: M12, 8 poles integrated. Protection rating: IP65 - Protection level: ANSI B11,19, ANSINFA79 and IEC/EN 60204-1. Materials: Polycarbonate / Polyamide.

Reference	Designation	Output	Indicator	Base
TUR3025304	SSA-EB1PLYR-12ECQ8	1 NO (PNP) / 2 NC	Yellow and red (flash/steady)	M30
TUR3026628	SSA-EB1PLGR-12ECQ8	1 NO (PNP) / 2 NC	Green and red (flash/steady)	M30
Accessories				
TUR3800032	SSA-EB1P-ECWC	FDA IP69K silicone membrane		
TUR3089970	SSA-MBK-EEC1-SS	316L stainless steel bracket		



Connection cables

Reference	Designation	Length (m)	Description
TUR3072205	DEE2R-81D	0.3	M12 cordset, straight female and straight male, PVC cable sheath, PUR connector, nickel-plated brass nut - (A)
TUR3094306	DEE2R-88D	2.5	
TUR3020606	CSS-M12F81M12M8M12F81	0.3	Octopus cable 2 (female) M12 + 1 (male) M12 (B)
TUR3025473	CSS-M12F88M12M81M12F81	2.5	
TUR3070975	MQDC2S-806	2	Single cable, PVC sheath, PUR connector, nickel-plated brass nut (C)
TUR3070976	MQDC2S-815	4.5	



DUO-TOUCH two-hand control

Effortless button activation. Significantly reduces MSDs (musculoskeletal disorders). Ergonomics adapted to high usage rates. Category 4 according to ISO 13849-1 (EN954-1) - Type IIIC according to standard ISO 13851 (EN 574). Easy to install, improved productivity and ideal for presses and dangerous machines.

Kit including: 2 buttons + 1 relay

Reference	Designation	Power supply	Relay output	Relay connection
TUR3064292	ATKVP6Q5	24 VDC	2x 6 A NO redundant outputs	Removable terminal block M12 x 4 poles



SC10 – Programmable safety controller

Controller programmable using free, intuitive PC software. Used to manage a large number of safety devices. 24 VDC power supply, multi-protocol communication. Category 4 PLE according to standard EN ISO 13849-1. SIL3 according to standard IEC 61508 and IEC 62061.



PCCC



EtherNet/IP

Reference	Designation	Inputs	Outputs	Communication	Dimension
TUR3806222	SC10-2roe	10 including 4 reconfigurable	2 independent 6 A safety relay outputs, each with three N.O. sets of contacts	Industrial Ethernet	115 x 45 x 100

Insulated Arc Flash safety helmet with integrated face shield

Mechanical protection and protection against the heat of electric arcs APC 1

EN 397, EN 50365 - 1000 V AC, Arc flash GS-ET-29 APC 1, EN 166/EN 170. Standards 2.1.2 2 B389KN

Reference	Characteristics	Standards	Weight
CATMO-185-BL	Insulating shell up to 20 kV (ANSI). 4-point chin strap	2.1.2 2 B389KN	750 g
CATMS-124/2	70 lm head torch with 3 lighting modes		680 g

CATMO-185-BL



CATMS-124/2

Arc-Flash facial protection shield with headband

APC 1 protection against the heat of an electric arc, anti-fogging. Possibility to change the shield and anti-sweat headband.

Reference	Characteristics	Standards	Weight
CATMO286	Screen with thumbwheel to adjust headband, shield height 20.5 cm	Arc flash GS-ET-29 APC 1 EN 166/EN 170 2C-1.2 CATU 1 B 8-1-0 3 ANSI Z 87.1	400g
CATM883209	Spare face shield		
CATM883298	Spare anti-sweat headband		



CATMO286



CATM883298

Hand protection

Reference	Characteristics	Class	Length (mm)	Standards	Other classes
Comfortable-to-wear insulating gloves for electrical work: soft, flexible, resistant and ergonomic					
CATCG05*	Latex gloves without mechanical protection	00	360	EN 60903:2003	1 to 4
CATCG10*	Latex gloves without mechanical protection	0	360	IEC 60903:2014	1 to 4
* available in sizes A to D (to be specified)					
Leather overgloves for mechanical protection					
CATCG991*	Silicon-coated goatskin grain leather, high-quality Kevlar thread stitching			EN 388, EN 407, EN 420+A1: 5	
* available in sizes 8 to 12 (to be specified)					
Comfortable-to-wear insulating gloves for electrical work: soft, flexible, resistant and ergonomic					
CATCGM0*	Tear-resistant latex gloves with mechanical protection	0	360	EN 60903:2003 IEC 60903:2014	00 to 4

* Available in sizes 7 to 12 (to be specified)



CATCG05



CATCG991



CATCGM0

Multi-risk switching jacket offering 12 cal/cm² protection against electric arcs

Specially designed to be worn over normal clothing for short operations.

Reference	ATPV (cal/cm²)	Box test	Length (cm)	Standards
CATAFG2300*	12	APC 1	121	IEC 61482-2 APC 1 & ATPV 12 cal/cm² ISO 11612 A B1 C1 E2 F1 EN 1149-5 NFPA 70E - ASTM F1959

* Available in sizes from S to 4XL (to be specified)



Insulating blanket and clamp

Flexible transparent material reinforced with mesh. Thickness 0.5 mm

Reference	Characteristics	Dimensions (mm)	Operating Voltage
CATMP123	Velcro strips around the edges to join blankets together	L 660 x W 360	≤ 1000 VAC
CATMP625D	Large, fully insulated clamp	-	≤ 1000 VAC



MP123



MP625D

Protection kit for operations on low voltage (LV) electrical equipment

Reference	Composition	Dimensions (mm)	Standard
CATKIT185103	1 MS-917 voltage detector, IP2X probe tips, 12 - 690 VAC. 1 MO-286 Arc-Flash facial protection shield. 1 pair of insulating gloves 1000 VAC - 1500 VDC. Wellfit finish. Size 10 CG-10-C. 1 pair of CG-981-10 overgloves providing mechanical protection. 1 pair of CG-80-H cotton undergloves. 1 MP-11/16 class 0 insulating mat (0.60 m x 1 m) with MO-160 storage strap.	300 x 190 x 300	In application of the requirements of NF C18-510



Low voltage detectors

Reference	Voltage	Probe tips	Phase rotation
CATMS917PG	900 VAC	IP2X	no
CATMS918PG	900 VAC	IP2X	yes
CATMS920PG	690 VAC	IP2X	yes



Low voltage phase rotation indicator

Reference	Frequency	Voltage	Standards
CATMS153	50 & 60 Hz	25 - 440 VAC	Phase rotation indicator operational from 25 V, Also works on generator units NF EN 61557-7:2007, NF EN 61010-031: 2015



Intervention kit for work in 20 kV substations according to NF C13-100

Reference	Composition
CATKIT01	CG-3-10-NR insulating gloves. CG-35/2 wall box for insulating gloves. CI-23 fuse holder. CS-45 rescue pole 45 kV delivered with CI-06-D wall brackets. CT-7-*/1 insulating stool or MP-42/16 class 3 insulating mat with MP-20 storage tube depending on the selected kit.



Voltage tester for 20 kV substations

Reference	Characteristics	Standards
CATCL4651036M	Pole + VAT 10/36 kV	IEC 61243-1:2003 + AC1:2005 + A1:2009

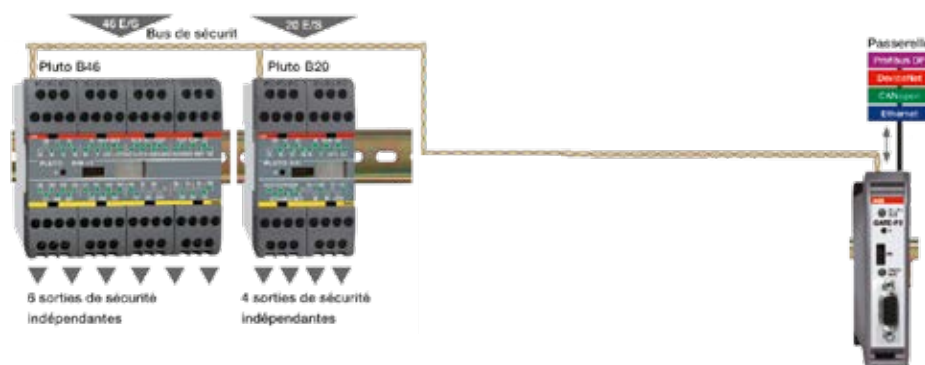


Regulatory posters for substations

Reference	Characteristics
CATAM8011	Regulatory poster kit for substations



PLUTO PLC: up to 32 PLCs can be connected in a network



Compatible with all types of sensor, **EACH INPUT ACCEPTS UP TO 10 PLe SENSORS IN SERIES THANKS TO THE DYNAMIC SIGNAL.**

Direct reading of all the network inputs on each PLC.

Communication possible with all the automation networks:

Profibus,
DeviceNet,
Can Open
Ethernet/IP
Profinet
Modbus TCP

Safety PLCs

Designation	Safety inputs	Safety inputs/non-safety outputs	Safety outputs, relay / static	References
Pluto S20 20-I/O without Pluto safety bus	8	8	2 / 2	2TLA020070R4700
Pluto A20 20-I/O current measurement	8	8	2 / 2	2TLA020070R4500
Pluto S46 46-I/O without Pluto safety bus	24	16	4 / 2	2TLA020070R1800
Pluto B20 20-I/O with Pluto safety bus	8	8	2 / 2	2TLA020070R4600
Pluto B22 22-I/O with Pluto safety bus, non-safety outputs	14	8	-	2TLA020070R4800
Pluto O2 6 I/O with Pluto safety bus	2	2	2	2TLA020070R8500
Pluto B46 46-I/O with Pluto safety bus	24	16	4 / 2	2TLA020070R1700
Pluto D20 20-I/O with Pluto safety bus, 4 analogue inputs	8	8	2 / 2	2TLA020070R6400
Pluto D45 45-I/O with Pluto safety bus, rapid inputs for coder (speed measurement)	24	15	4 / 2	2TLA020070R6600

Accessories

Designation	References
Backup storage IDFIX Prog 10 kb	2TLA020070R2600
Pre-programmed IDFIX-R identifier	2TLA020070R2000
Pluto USB cable for programming	2TLA020070R5800
GATE-P2 PROFIBUS-DP Pluto gateway	2TLA020071R8000
GATE-C2 CANopen Pluto gateway	2TLA020071R8100
GATE-D2 DeviceNet Pluto gateway	2TLA020071R8200
GATE-EC EtherCAT gateway	2TLA020071R9100
GATE-EIP Ethernet/IP gateway	2TLA020071R9000
GATE-MT TCP Modbus gateway	2TLA020071R9400
GATE-PN PROFINET gateway	2TLA020071R9300
SERCOS III GATE-S3 gateway	2TLA020071R9200



Pull-cord safety switches

Reference	Designation	Characteristics
BER6011629069	SR-U2Z-NA-QF-300	Max 75 m 2 NO+2 NC with reset
BER6012929087	SRM-U1Z-U1Z-QF-300	Max 75 m 2 NO+2 NC with reset
BER3699100025	D3/D4 cord	D 3/4 mm red cord



SRM



SR NA

Pedal switches

Reference	Designation	Characteristics
BER6061600006	F1 U1Z UN	Single 1x NC / NO metal cover
BER6061100005	F1 U1Z	Single 1x NC / NO
BER6161000626	F1 SU1ZCA2ZDR UN	Single, 3-position safety switch with cover
BER6062720020	F2 U2ZD U2ZD UN	Double, 3-position safety switch with cover



F1 UN



F2 UN

Safety switches with separate actuator

Reference	Designation	Characteristics
BER6016169026	SK UV15Z M	2 NC+1 NO delivered with standard key
BER6016869058	SKI UV15Z M3	Narrow 2 NC+1 NO delivered with standard key
BER6016419059	SKT U1Z M3	Compact 1 NC+1 NO delivered with standard key
BER6018119045	SLK F UC 55 R1 A0 L0 0	24 VAC/DC power-to-release
BER3911702228	A1 key	SLK actuator



SLK



SKT

Safety hinges

Reference	Designation	Characteristics
BER6019490054	SHS3Z- U15Z SA R	2 NC+1 NO 250 V 3 A M12 6 poles
BER6019490060	SHS3Z-A2Z SA R	Eco 2 NC 250 V 3 A M12 4 poles
BER6019490049	SHS3Z	Empty hinge
BER3251006292	AN KAB SHS3 5 m	M12 6-pole cable, PUR IP68 Length 5 m



SK



SKI

RFID safety detectors

Reference	Designation	Characteristics
BER6075685121	SRF-2/1/1-E0.25-L	M12 5P low coding individual detector
BER6075685101	SRF-5/1/1-E0.25-L	Series detector, M12 4P low coding
BER6075685102	SRF-5/1/1-E0.25-H	Series detector, M12 4P high coding
BER6075687078	SRF-0	Universal receiver



SRF



SHS3

Extra-compact limit switch

Reference	Designation	Characteristics
BER6089152048	I49 SU1Z IW	Plunger 1 m cable
BER6089152050	I49 SU1Z IWF	Plunger 1 m cable
BER6089167052	I49 SU1Z RIW	Roller 1 m cable
BER6089167054	I49 SU1Z RIWF	Roller 1 m cable
BER6089185056	I49 SU1Z AH	Roller lever 1 m cable



I49 AH

Modular limit switch

Reference	Designation	Characteristics
BER6083000207	IN65 SU1Z SM	Plunger, modular
BER6083000214	IN65 SU1Z RK	Roller, modular
BER6083000235	IN65 SU1ZAHK	Roller lever, modular
BER6083000307	IN65 SU1Z AHDM	Rod, modular
BER6083000280	IN65 SU1Z AVM	Adjustable roller lever
BER6083000221	IN65 SU1Z HK	Roller, modular



SU1Z AH



SU1Z SM

Position switches

All combinations possible (head, contacts, body, outputs): Contact us

Width Material Protection rating	Type action of the head	Cable gland size (available in metric version)	Type Contact	15-character code
Width 30 mm Plastic IP 65	10	11	1 NO + 1 NC snap action (or simultaneous)	COMAP3T10Z11
	13	11		COMAP3T13Z11
	30	11		COMAP3T30Z11
	41	11		COMAP3T41Z11
	42	11		COMAP3T42Z11
	51	11		COMAP3T51Z11
	91	11		COMAP3T91Z11
Width 30 mm Metal IP 66	11	11	1 NO + 1 NC snap action (or simultaneous)	COMAM3F11Z11
	12	11		COMAM3F12Z11
	41	11		COMAM3F41Z11
	42	11		COMAM3F42Z11
	51	11		COMAM3F51Z11
	61	11		COMAM3F61Z11
Width 40 mm Plastic IP 65	11	13.5	1 NO + 1 NC snap action (or simultaneous)	COMBP1H11Z11
	13	13.5		COMBP1H13Z11
	31	13.5		COMBP1H31Z11
	41	13.3		COMBP1H41Z11
Width 40 mm Metal version IP 66	11	13.5	1 NO + 1 NC snap action (or simultaneous)	COMBM1E11Z11
	13	13.5		COMBM1E13Z11
	31	13.5		COMBM1E31Z11
	41	13.5		COMBM1E41Z11
	51	13.5		COMBM1E51Z11
Width 30 mm Metal IP 67 Cable outlet 1 m.	11		1 NO + 1 NC snap action (or simultaneous)	COMEM1G11Z
	12			COMEM1G12Z
	14			COMEM1G14Z
	22			COMEM1G22Z
	41			COMEM1G41Z



COMAP3T30Z11



COMAM3F61Z11



COMBP1H41Z11



COMBM1E51Z11



COMEM1G14Z



Plunger



Roller plunger



Roller lever



Roller lever



Roller lever



Adjustable roller lever



Flexible rod



Head 10/11



Head 12/13



Head 31



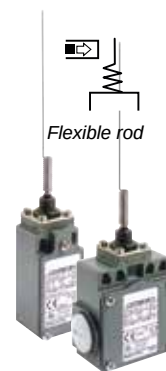
Head 41/43



Head 42

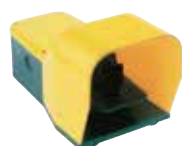


Head 51



Head 91

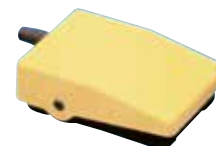
Pedal switch with plastic body IP65



PS series



Miniature pedal IP40



MP series

INSTRUMENTATION AND ATEX

TITLE	BRAND	PAGE
ATEX visual and audible alarms	AUER	H.2
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Signalling lights

Type	Housing	Description	IP	Colours	Gas	Dust	Zones	Voltage	Reference
mDD	Black plastic	xfct LED light Ø103 mm	66	red white blue green yellow	X	X	1, 2, 21, 22	24 VDC	JAU33600C005
mDD	Black plastic	xfct LED light Ø103 mm	66	red white blue green yellow	X	X	1, 2, 21, 22	230 VAC	JAU33600C413
MMD	Black plastic	Multi-colour LED light Ø103 mm	66	5 colours	X	X	2.22	24 VDC	JAU337000005
MMD	Black plastic	Multi-colour LED light Ø103 mm	66	5 colours	X	X	2.22	230 VAC	JAU337000313
DSF	Yellow/black aluminium	Xenon 15J strobe light Ø110 mm	66	orange red white blue green	X	X	1,2,21,22	24 VDC	JAU33500C005
DSF	Yellow/black aluminium	Xenon 15J strobe light Ø110 mm	66	orange red white blue green	X	X	1,2,21,22	230-240 VAC	JAU33500C413
DSD	Yellow/black aluminium	xfct LED light Ø110 mm	66 / 67	red blue green yellow white	X	X	1,2,21,22	24 VDC	JAU33521C005
DSD	Yellow/black aluminium	xfct LED light Ø110 mm	66 / 67	red blue green yellow white	X	X	1,2,21,22	48 VDC	JAU33521C008
DSD	Yellow/black aluminium	xfct LED light Ø110 mm	66 / 67	red blue green yellow white	X	X	1,2,21,22	230-240 VAC	JAU33521C313

C = Colour code for the light modules

1 = orange

2 = red

4 = transparent

5 = blue

6 = green

7 = yellow

8 = magenta



DSF



MMD

Audible alarm

Type	Housing	Description	IP	Nbr tones	Gas	Dust	Zones	Voltage	Reference
DMS	Yellow/blue aluminium	Multi-tone electronic siren 115 dB	66	32 / 2	X	X	1,2,21,22	24 VDC	JAU371000005
DMS	Yellow/blue aluminium	Multi-tone electronic siren 115 dB	66	32 / 2	X	X	1,2,21,22	85-265 VAC	JAU371000313
DHH	Fibreglass reinforced plastic	Electromechanical buzzer 105 dB continuous d 190	66	1	X	X	1,2,21,22	24 VDC	JAU300000005
DHH	Fibreglass reinforced plastic	Electromechanical buzzer 105 dB continuous d 190	66	1	X	X	1,2,21,22	230 VAC	JAU300000113
mHPT	Black polycarbonate	Electromechanical horn 108 dB	54	1	X		1.2	24 VDC	JAU301100005
mHPT	Black polycarbonate	Electromechanical horn 108 dB	54	1	X		1.2	230 VAC	JAU301100113
mHTG	Grey aluminium	Electromechanical horn 108 dB	66	1	X	X	1,2,21,22	24 VDC	JAU302100005
mHTG	Grey aluminium	Electromechanical horn 108 dB	66	1	X	X	1,2,21,22	230 VAC	JAU302100113



DMS



MHTG

Controllers in standard DIN formats Gammadue® series

Thanks to their flexibility and many features, these regulators offer a high quality solution for the various applications requiring P.I.D. control.



C1



M1 - M3 - M4 - M5



X1 - X3 - X5



Q1 - Q3 - Q5

Model	Designation	Reference
C1 – 48 x 24 mm	Controller, 100..240 power supply VAC, basic: 1 relay output	ASCC130000100
C1 – 48 x 24 mm	Controller Power supply 24 VDC / 24 VAC, basic: 1 relay output	ASCC150000100

Model	Designation	Reference
M1 – 48 x 48 mm	Controller Power supply 100..240 VAC, basic: 1 relay output	ASCM130000000
M3 – 48 x 48 mm	Controller Power supply 100..240 VAC, Outputs: 2 relays	ASCM331000100
M4 – 48 x 48 mm	Controller Power supply 100..240 VAC, Outputs: 2 relays + 1 regulation analogue output.	ASCM431070100

Model	Designation	Reference
X1 – 48 x 96 mm	Controller Power supply 100..240 VAC Double display, Outputs: 3 relays	ASCX131000100
X3 - 48 x 96 mm	Controller Power supply 100..240 VAC, Outputs: 3 relays + 1 regulation or retransmission analogue output	ASCX331050100

Model	Designation	Reference
Q1 – 96 x 96 mm	Hot/cold controller Power supply 100..240 VAC, Double display, Outputs: 3 relays	ASCQ131000100
Q1 – 96 x 96 mm	Hot/cold controller Power supply 100..240 VAC, Double display, Outputs: 3 relays + 1 retransmission analogue output	ASCQ131050100
Q3 – 96 x 96 mm	Double-action controller/programmer Power supply 100..240 VAC, Double display, Outputs: 3 relays	ASCQ331000100

Latest-generation OEM controllers KUBE® series

These controller offer a solution for standardised applications requiring P.I.D. control.



KR1



KM1



KX1

We keep several models likely to satisfy a wide range of applications in stock to provide you with an immediate solution.

Model	Characteristics	Reference
KM1	48 x 48 mm controller - Power supply 100..240 VAC – removable terminal block Inputs: TC-PT100-PT1000-mA-mV-V + ext. X2 - Outputs: Relay x2 + 1 SSR	ASCKM1-HCRORD-E
	48 x 48 mm controller - Power supply 24 VAC/DC – removable terminal block Inputs: TC-PT100-PT1000-mA-mV-V + ext. X2 - Outputs: Relay x2 + 1 SSR	ASCKM1-LCRORD-E
KM3	48 x 48 mm controller - Power supply 100..240 VAC – removable terminal block Inputs: TC-PT100-PT1000-mA-mV-V + ext. X2 - Outputs: Analogue + 1 Rel. + 1 SSR	ASCKM3-HCIORD-E
	48 x 48 mm controller - Power supply 24 VAC/DC – removable terminal block Inputs: TC-PT100-PT1000-mA-mV-V + ext. X2 - Outputs: Analogue + 1 Rel. + 1 SSR	ASCKM3-LCIORD-E
KR1	35 x 78 mm controller - Power supply 100..240 VAC – removable terminal block Inputs: TC-PT100-PT1000-mA-mV-V + ext. X2 - Outputs: Relay x2	ASCKR1-HCRR-D
	35 x 78 mm controller - Power supply 24 VAC/DC – removable terminal block Inputs: TC-PT100-PT1000-mA-mV-V + ext. X2 - Outputs: Relay x2	ASCKR1-LCRR-D
KX1	KX1 48 x 96 controller - 100..240 VAC. Tc-Pt-mA-mV - Outputs: Relay x2	ASCKX1-HCRORD-E

Contact us for “back panel-mount” controllers!

Fluid

Applications	Designation	Switching angles	Reference	img
Drinking water 	SOBA EP ACS-certified	± 25°	ATMSOBAACSxxM	1
	ATS 165 EP ACS-certified	± 165°	ATMATS165VRACSxxM	2
Clean water	BIP STOP/BIP ECO (Optional ballast)	± 110°	ATMBIPSTOPVRNEOxxM	3
Water with low levels of suspended solids	AT120 (Optional ballast)	± 120°	ATMSOBANE0xxM	4
	ATS165 (Optional ballast)	± 165°	ATMATS165VRNEOxxM	5
	SOBA/SOBA SMALL (Ballast included)	± 25°	ATMSOBASMAALLNEOxxM	6
	TUBA 1>> et 1>>1/4 (Optional ballast)	± 20°	ATMTUBA11/4VRNEOxxM	7
Water with high levels of suspended solids	AQUA XL (Internal ballast)	± 10°	ATMAQUAXLxxM	8
	AQUA MEDIUM (Internal ballast)	± 10°	ATMAQUAMED1UMxxM	9
	SOBA SPEED (vertical triggering)	± 5°	ATMSOBASPEEDNEOxxM	10
Aggressive fluids 	SOBA HR HY	± 25°	ATMSOBAHYPxxM	11
	AT 120 HR HY	± 120°	ATMSOBAHYPALONxxM ATMAT120HYPALONVRxxM	12
Explosive environments 	SOBA EX ATEX-certified	± 25°	ATMSOBAEXHYPxxM	13

NB: ATMSOBAHYPXXM (hypalon housing), ATMSOBAHYPALONXXM (hypalon housing and cable) - Same for ATMAT120



Grains and powders

Applications	Designation	Switching angles	Reference	img
Grains and powders	SOLIBA NEO	±10°	ATMSOLIBANE0xxM	1
	SOLIBA PLUS (stones)	±10°	ATMSOLIBAPLUSNEOxxM	2
	SOLIBA SPECIALE (flour)	±10°	ATMSOLIBASPECIALxxM	3
Explosive environments, gas zone (1,2) 	SOLIBA EX P (grains & powders)	±10°	ATMSOLIBAPEXHYPxxM	4
	SOLIBA PLUS EX P (stones)	±10°	ATMSOLIBAPLUS HYPALONPEXxxM	2
	SOLIBA SPECIALE P (flour)	±10°	ATMSOLIBASPECIALPEXxxM	3
Explosive environments, gas zone (1,2) & dust (20,21,22) 	SOLIBA EX GP	±10°	ATMSOLIBAGPEXHYPALONxxM	4
	SOLIBA SPECIALE GP (flour)	±10°	ATMSOLIBASPECIALGPPEXxxM	3



IMPORTANT: all ATEX detectors must be equipped with an intrinsic safety barrier

Ref.: PEP132958 24 VDC or PEP103374 220 VAC

xx: possible cable length: 5, 6, 10, 13, 15, 20 and 25 m according to the models

ACCESSORIES:

ATMLESTECOLOGICCLIP: ecological clip ballast, weight 275 g, for all models except TUBA

ATMLESTRESICHARG: 250g ballast for BIP STOP, SOBA, SOBA SMALL and AT120

ATMTTACHECABLE: cable fastener for all float switches

TELIS 9000: Universal signal conditioners

1 universal input (U, I, RTD, Tc, Potentiometer) or 2 inputs 0/4...20 mA (24 bits)

Up to 2 0/4...20 mA / 0...10 V analogue outputs (16 bits) and 4 2 A relay outputs

Universal power supply: 20 VDC/240 VDC & 80 VAC/256 VAC, (20-60 VAC as an option)

Programming via joystick on backlit screen or by PC via USB link

Communication: RS485 MODBUS-RTU



Reference	Output(s)		Width 22.5 mm
	analogue	relay	
JMCTELIS9000U1	1	0	Base to be ordered for individual mounting: BL01ALV
JMCTELIS9000U2	2	0	
JMCTELIS9100U0	0	1	
JMCTELIS9150U1	1	1	
JMCTELIS9250U0	0	2	

Reference	Output(s)		Width 45 mm
	analogue	relay	
JMCTELIS9200U1	1	2	Base to be ordered for individual mounting: BL01ALV
JMCTELIS9200U2	2	2	
JMCTELIS9400U0	0	4	
JMCTELIS9400U1	1	4	
JMCTELIS9400U2	2	4	

XLOGTELIS configuration software to be downloaded from the JM-Concept website.
PC/Telis connection cable available under the reference CUC-532490.

XALIS: Display with analogue and/or relay outputs

Housing format 1/8 DIN 96 x 48 mm - IP65 with removable connections.

LED display – Line 1: 5-figure measurement display | Line 2: 9-character test display.

Reference	Output(s)		Function
	Analogue	Relay	
JMCXALIS9000U0	0	0	Display
JMCXALIS9000U1	1	0	Display + conversion/repeat of 1 signal
JMCXALIS9200U0	0	2	Display + 2 relays with configurable thresholds
JMCXALIS9200U1	1	2	Display + conv/trans of 1 signal + 2 relays with thresholds
JMCXALIS9400U1	1	4	Display + conv/trans of 1 signal + 4 relays with thresholds
JMCXALIS9400U2	2	4	Display + conv/trans of 2 signals + 4 relays with thresholds



XLOGXALIS configuration software to be downloaded from the JM-Concept website.
PC/Telis connection cable available under the reference CUC-532490

ULCOS900: Signal conditioners / Alarm relays

1 universal input (U, I, RTD std, TC, Potentiometer - 16 bits)

Up to 2 0/4...20 mA / 0...10 V analogue outputs (16 bits) and 2 0.5 A relay outputs

Universal power supply: 20 VDC/240 VDC & 80 VAC/256 VAC

Programming via mini-joystick on LCD screen or by PC via the JMCULCOS100 kit

Reference	Characteristics
JMCULCOS920D0	ULCOS 900 2 alarm relay outputs (CO)
JMCULCOS900D1	ULCOS 900 1 analogue output
JMCULCOS920D2	ULCOS 900 2 analogue outputs + 2 alarms 1 CO

See also

JMCULCOS600I = Conditioner with 0-5 AAC input

JMCULCOS600V = Conditioner with 0..500 VAC input

**JK 2000: Self-powered loop isolators**

Snap-on isolator for DIN rail enabling problems with parasites on analogue measurement lines to be solved simply and cheaply.

Reference	Main characteristics
JMCJK2001	0/4.20 mA single-channel self-powered isolator for impedance 150 Ω to 550 Ω
JMCJK2002	0/4.20 mA dual-channel self-powered isolator for impedance 150 Ω to 550 Ω
JMCJK20S1*	0/4.20 mA single-channel self-powered isolator for impedance 0 Ω to 250 Ω
JMCJK20S2*	0/4.20 mA dual-channel self-powered isolator for impedance 0 Ω to 250 Ω

* JMCJK2000S: low impedance version for Siemens PLC and Sofrel in particular



Wall-mounted transmitters

SA range – Wall-mounted units for room temperature measurement

Output signal	Wall-mounted temperature probe	
	For dry rooms	IP65 with 316L stainless steel probe
PT100	PROSAIL	PROSAEL
PT1000	PROSAILM	PROSAELM
4...20mA	PROSAIAT	PROSAELT



316L stainless steel welded thermowells



316L stainless steel 1/2" G thread thermowells for probe with 1/2" G process connector				
Effective length*	30 mm	80 mm	130 mm	180 mm
for probe Ø6 mm	PRODG120930	PRODG120980	PRODG1209130	PRODG1209180
for probe Ø8 mm	PRODG121330	PRODG121380	PRODG1213130	PRODG1213180

*Effective length of the thermowell = Effective length of the probe - 20 mm

316L stainless steel 1/2" BSP thread thermowell with locking screw for smooth probe				
Effective length*	40 mm	90 mm	140 mm	180 mm
for probe Ø6 mm	PRODGV120940	PRODGV120990	PRODGV1209140	PRODGV1209180

*Effective length of the thermowell = Effective length of the probe - 10 mm

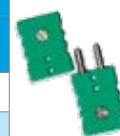
Brackets and sliding connectors for smooth probes



	Stainless steel bracket	1/2" G threaded sliding connector	1/4" G threaded sliding connector
for probe Ø6 mm	PROBRD6I	PRO0612G	PRO0614G
for probe Ø8 mm	PROBRD8I	PRO0812G	PRO0814G

Compensated connectors for IEC thermocouple

	Miniature according to IEC 60584			Standard according to IEC 60584		
	Male connector	Female connector	Female base	Male connector	Female connector	Female base
for J thermocouple	PROMMJ	PROMFJ	PROEFMCJ	PROSMJ	PROSFJ	PROEFSCJ
for K thermocouple	PROMMKIEC	PROMFKIEC	PROEFMCKIEC	PROSMKIEC	PROSFKIEC	PROEFSCKIEC



SL – SLSR: PT100 Ø6 mm smooth probe, cable outlet, class A, 3 wires, 316L stainless steel

Connection by cable with bending spring (SL) or without bending spring (SLSR)

Process connector: Smooth for mounting in a sliding connector or on a bracket with locking screw

Cable length: 1 m, 3 m or 10 m (other lengths made on request)

Measuring range: -50°C to +450°C

Choice of cable coating according to the maximum ambient temperature of its routing

PVC/PVC (105°C), PFA/silicone (180°C), or glass wool/stainless steel braid (450°C)

PT100 smooth probe Ø6 mm - 3 wires - 3-metre cable outlet			
Probe length	Connection protected by spring		Connection without spring
	Cable in zone < 100°C	Cable in zone < 180°C	Cable in zone < 100°C
50	PROSL50PVC13M	PROSL50SI13M	PROSLSR50PVC13M
100	PROSL100PVC13M	PROSL100SI13M	PROSLSR100PVC13M

Product available with other probe and cable lengths on request.



BLC – BOSI: PT100 probe, class A, 3 wires, 316L stainless steel, aluminium alloy B type head

Aluminium alloy epoxy-coated B type connection head

Process connector: Smooth (BLC) or G1/2" thread (BOSI), 316L stainless steel

Output: 3-wire PT100

Measuring range: BLC: -50°C to +250°C - BOSI: -50°C to +450°C

(this product is also available in a thermocouple or PT1000 version on request)

PT100 probe x1 – 3 wires – with B type head			
Probe length	Ø6 mm probe		Ø8 mm probe
	Smooth probe (without connector)	G1/2 thread connect.	G1/2 thread connect.
50	-	PROBOSI5016	PROBOSI5018
100	PROBLC61001	PROBOSI10016	PROBOSI10018
150	PROBLC61501	PROBOSI15016	PROBOSI15018
200	PROBLC62001	PROBOSI20016	PROBOSI20018
300	PROBLC63001	PROBOSI30016	PROBOSI30018

Product available with other probe lengths and other types of head on request.



4..20 mA programmable converters for mounting in a type B probe head

Signal converters adapted for mounting in a type B head		
References	Protection	Characteristics
7NG32110NN00	Non-insulated	Converter PT100 input - 4-20 mA output
7NG30928KN	-	SIEMENS programming kit (USB interface)
PRO910PROI	Insulated*	Universal converter: Tc; PT100; 0-50 mV - 4-20 mA output
PROLOGICIEL900PROUSB	-	Programming kit for 910PROI (USB interface)

* Insulated version recommended for mV and Tc probe signal where earthing continuity is uncertain



Testers, multimeters

Reference	Technical characteristics
SEFSEFRAM62	VAT device according to EN 61243-3 / UTE 18-510 Continuity test / RCD / IP2X probe
SEFSEFRAM66	Digital VAT device according to EN 61243-3 / UT 18-510 Continuity test / RCD / IP2X probe / delivered with bag

Reference	Technical characteristics
SEFSEFRAM7202	Multimeter, 6000 pts, TRMS AC AC/DC 600 V bar graph - Delivered with anti-shock sheath
SEFSEFRAM7223	Multimeter, 6000 pts, 1000 V TRMS AC and 1000 VDC - Bluetooth Voltage measurement on photovoltaic panels up to 1500 VAC and up to 2000 VDC with the optional SA163 cable

Other multimeters: Contact us



SEFRAM62

SEFRAM66

SEFRAM7223+SA163 option

Clamp ammeters

Reference	Technical characteristics
SEFBK316	I AC/DC 10-80-100 A - Resolution 1 mA (high sensitivity). Analogue output (10 mV / A) Usable with oscilloscope, 12.5 mm opening
SEFBK313C	I AC/DC 600 A - U AC/DC 600 V Continuity measurement, 25 mm opening
SEFMW3360	I AC/DC 600 A - U AC/DC 600 V - bar graph Resistance and continuity measurement, 45 mm opening
SEFMW3035	Low current clamp, 100 AC/DC TRMS (Resolution: 10 mA) 1000 VAC/DC

Other clamps: Contact us



SEFBK316

SEFBK313C

SEFMW3360

SEFMW3035

Energy measurement

Reference	Technical characteristics
SEFMW3526BF	Wattmeter clamp 600 A AC/DC, 1000 VAC/DC, P,Q,S measurement, Bluetooth
SEFMW9683B SEFMW9685B SEFMW9690B	Network analyser and power measurement MW9683B and MW9685B = class S • MW9690B = class A Current and voltage = 4 U - 4 I for MW9685B and 9690B • 3 U - 4 I for MW9683B MicroSD 8 GB memory card. Delivered with bag, probe tips, crocodile clips, PowerView software. The obligatory Flex S2094/96/98 clamp accessories are delivered separately.



SEFMW3526BF

SEFMW9690B

Insulation meters and machine control

Reference	Technical characteristics
SEFMW9090	Insulation tester and RMS AC multimeter Measurement at 50, 100, 250, 500, 1000 VDC. Delivered with active probe
SEFMW3950B	High-precision leakage current clamp, 6 mA to 100 A, 0.04 mA resolution
SEFMW9665	Low voltage electrical installation tester according to XP-C 16-600 & NFC-15-100 Insulation measurement, earth loop with and without rod, residual current Delivered with software + probe accessories
SEFMI3201	5 kV, 10 TΩ insulation measurement. Backlit LCD display. Test voltage in 25 V increments. Resistance measurement up to 10 TΩ
SEFMI3325	Machine controller according to standards IEC 60204, IEC 614349, IE 60439 Dielectric, continuity, insulation, residual current, voltage and phase rotation test. P, S, Q functional test



SEFMW9090

SEFMW3950B

SEFMI3201

SEFMW9665

SEFMI3325

Data acquisition

Reference	Technical characteristics
SEFDAS50	Handheld high-speed datalogger with 4 universal channels, touchscreen, 32 GB hard drive, USB interface, Ethernet, 9 hours and 30 minutes of battery autonomy. Possibility to perform a single-phase and three-phase network analysis, 3 U / 2 I method
SEFDAS60	Handheld high-speed datalogger with 6 universal channels, touchscreen, 64 GB hard drive, USB interface, Ethernet; WiFi (option), 9 hours and 30 minutes of battery autonomy Possibility to perform a single-phase and three-phase network analysis, 3 U / 3 I method Inrush current function
SEFDAS220	Handheld datalogger with 10 channels specially designed for processes for voltage signals, thermocouple, Pt 100-Pt 1000, 32 GB hard drive, USB interface, Ethernet, Wi-Fi (option). Available in DAS220BAT battery version



SEFDAS60

SEFDAS220

Analogue inputs with galvanic isolation type 9160 SIL 2

Reference	Designation	Channel	Input	Output	Usupp.
STA214895	9160/13-11-11s analogue input	1	0/4....20 mA with Hart	0/4....20 mA with Hart	24 VDC
STA220322	9160/23-11-11s analogue input	2			



Type 9160

Analogue outputs with galvanic isolation type 9165 SIL 2

Reference	Designation	Channel	Input	Output	Usupp.
STA201270	9165/16-11-11s analogue output	1	0/4....20 mA with Hart	0/4....20 mA with Hart	24 VDC
STA201272	9165/26-11-11s analogue output	2			



Type 9165

Digital inputs for dry contacts or NAMUR contacts with galvanic isolation, type 9170 SIL 2

Reference	Designation	Channel	Input	Output per channel	Usupp.
STA203283	9170/11-11-11s logic input	1	Dry contact or Namur contact	2 CO (125 V/1 A)	24 VDC
STA203145	9170/21-11-11s logic input	2		2 NO (125 V/1 A)	
STA203281	9170/21-12-21s logic input*	2		1 CO (250 V/4 A)	110...230 VAC

* cannot be used in zone 2



Type 9170

Temperature inputs with galvanic isolation type 9182

Reference	Designation	Channel	Input Ua	Output	Usupp.
STA160541	9182/20-51-11s temperature input	2	Temperature	0/4-20 mA	24 VDC

* configuration by PC or DIP switch



Type 9182

Digital output with galvanic isolation, type 9175 SIL 3 (for solenoid valve applications)

Reference	Designation	Channel	Input Ua	Max. Ia current	Usupp.
STA160419	9175/20-16-11s logic output	2	25 V	35 mA / 70 mA	24 VDC



Type 9175

Backplane bus, type 9194

Reference	Designation
STA160731	9194/31-17 IS PAC PAC-Bus 17.6 mm*
STA160730	9194/50-01 IS PAC set of terminals for PAC-Bus (start+end of segment)

* Individual base used to supply power at a single point. Up to 40 bases per segment.

**R. STAHL also includes other ranges of explosion protection interfaces:**

- Intrinsic safety barriers: INTRINSPAK,
- Remote inputs/outputs: Profibus DP - Ethernet/IP - Modbus TCP - Profinet: IS1+
- Foundation Fieldbus: IS bus
- Global solutions for HART, Profibus DP, Profibus PA, Ethernet TCP, Foundation Fieldbus, FDT / DMT & EDD systems

All the Ispac modules are referenced with screw terminals.

Available with spring-loaded terminals, SIL3 version for electronic outputs.



Dry contact or opto output



Thermocouple



Solenoid valve, indicator, horn



Namur contact



Resistance temperature detector



Hart valve, IP converter



4-wire transmitter



3-wire transmitter



2-wire transmitter

Large diffuser type range

in equivalent fluorescent tube wattage: 2 x 18 W, 2 x 36 W and 2 x 58 W

ATEX 6002 luminaire, with LED diffuser for zones 1, 2 and 21, 22

Usage in zones 1, 2 and 21 and 22

IP66/67 IK10 polycarbonate diffuser

Through-wiring

Service life: 100,000 hours ($T^{\circ} > 25^{\circ}\text{C}$)

RG1 approval photobiological risk Reinforced central locking

Diffuser, 5000 K (4000 and 2700 K on request)



6002

Reference	Designation	Power (W)	Length (mm)	Luminous flux (lm)
STA267058	6002/4128-0100-152-1110-11-8500 LED Exlux 6002	22	700	2910
STA267074*	6002/4148-0100-152-1110-11-8500 LED Exlux 6002	42	1310	5810
STA276335	6002/4168-0201-152-1110-11-8500 Exlux 6002	50	1610	6960

* Product in stock

ATEX 6402 luminaire, with LED diffuser for zones 2 and 21, 22

Usage in zones 2, 21 and 22

IP66/67 IK10 LED polycarbonate diffuser

Through-wiring

Service life: 100,000 hours ($T^{\circ} > 25^{\circ}\text{C}$)

RG1 approval photobiological risk Reinforced central locking

Diffuser, 5000 K (4000 and 2700 K on request)



Reference	Designation	Power (W)	Length (mm)	Luminous flux (lm)
STA267040	6402/4128-6100-152-1110-11-8500 LED Exlux 6402	22	700	2910
STA267054*	6402/4148-6100-152-1110-11-8500 LED Exlux 6402	42	1310	5810
STA276351	6402/4168-6200-152-1110-11-8500 LED Exlux 6402	50	1610	6960

* Product in stock

Tubular type innovative range

12 VDC, 24 to 48, 110 to 230 VAC/DC power supply

Different lengths available. Choice of LED colours: white, blue, green or orange

ATEX 6036 tubular LED luminaire for zones 1, 2 and 21, 22

Usage in zones 1, 2 and 21 and 22

IP66/67 (IP68) IK10 polycarbonate tubular LED luminaire

Service life: 100,000 hours ($T^{\circ} > 25^{\circ}\text{C}$)

RG1 approval, photobiological risk, diffuser, 5000 K



6036

Reference	Designation	Power (W)	Voltage (VAC)	Luminous flux (lm)
STA274207	6036/1225-450-0151-11 tubular	25	230	2847
STA274227	6036/1235-450-0151-11 tubular	37	230	4266
STA274247	6036/1248-450-0151-11 tubular	48	230	5575
STA274310	6036/1212-455-0151-11 tubular	13	230	1396

* Product in stock

Universal spotlight range
ATEX 6050/6 universal LED spotlight for zones 1, 2 and 21, 22

230 VAC/DC power supply - Power 20, 40, 60, 80 W,
with or without protection grille, external reflector, DALI driver, medium or wide beam.
Ultra-light, compact aluminium LED housing.
IP66/68 (10 m), IK10, T° -40...+70°C
Service life: 80,000 hours (T° > 25°C)
Universal suspension or wall-mounting
Internal reflector for wide or medium beam lighting.
5000 K, 230 VAC. (2200 and 4000 K on request)



6050

Reference	Designation	Power (W)	Luminous flux (lm)	Lum. Eff. (lm/W)	Version
STA265418	6050/604-202-6B2-000850-000 alu. spotlight	20	2000	122	Surface-mounted
STA272489	6050/604-401-7B2-000850-001 alu. spotlight	40	5100	127	Wall bracket
STA272480	6050/604-601-7B2-000850-001 alu. spotlight	60	7400	122	Wall bracket
STA270015	6050/604-801-7B2-000850-001 alu. spotlight	80	8800	113	Wall bracket

(fastening accessories on request, suspension rings, tube fastenings, 1-point fastening, bracket)

ATEX 6125/2 universal LED spotlight for zones 1, 2 and 21, 22

Power supply 110 to 277 VAC
Power of 100 W to 225 W, DALI driver (on request). Narrow, medium or wide beam.
Powder-coated stainless steel housing. Bracket mounting
IP66, IK10, T° -60...+60°C, 5000 K (others on request)



Reference	Designation	Power (W)	Flux (lm)	Lum. Eff. (lm/W)	Version
STA284563	6125/2124-3501-6015-331	160	14595	94	Wide beam with bracket
STA284165	6125/2124-5501-6015-331	225	19941	91	Wide beam with bracket

ATEX 6525/2 universal LED spotlight for zones 2 and 21, 22

Power supply 110 to 277 VAC
Power of 100 W to 225 W, DALI driver (on request)
Narrow, medium or wide beam
Powder-coated stainless steel housing, 5000 K (others on request)
IP66, IK10, T° -60...+60°C



Reference	Designation	Power (W)	Flux (lm)	Lum. Eff. (lm/W)	Version
STA284538	6525/2224-3501-6015-331	160	15550	100	Wide beam with bracket
STA284540	6525/2224-5501-6015-331	225	20909	95	Wide beam with bracket

ATEX LED emergency lighting for zones 1, 2 & 21, 22

High-performance LED, IP66/67,
100,000 hours at 25°C
1 hour and 30 minutes of autonomy, luminous power at 50% or 3 hours, luminous power at 25%.

Reference	Designation	Version
STA287799	6109/111-0101-160-0111-31-1850-A11	Emergency exit to the right


Volumetric detector, motion sensor, twilight sensor on request

3-pole ATEX safety switches for zones 1,2,21 & 22

Black handle with polyamide cable gland

Available in 6-pole version up to 180 A, yellow/red handle, brass plate for armoured cable.

Reference	Type	Designation	Cable entry
STA201404	16 A	8146/5-V37-302-50-0050 1 NO (ON delayed-OFF leading)	2 x M25x1.5 1 x M20x1.5
STA201422	25 A	8146/5-V37-304-50-0010 1 NO (ON delayed-OFF leading)	2 x M32x1.5 1 x M20x1.5
STA200206	40 A	8146/5-V37-305-51-0010-K 1 NO (1 x ON delayed-OFF leading), 1 NC	2 x M40x1.5 1 x M20x1.5



ConSig ATEX control stations for zones 1, 2, 21 & 22

Other combinations possible, brass plate on request.

Reference	Type	Designation
STA130686	Pushbutton	8040/1180X-01L50SA05 1 x 1 NO+1 NC pushbutton with I/O disks
STA130679	Mushroom button turn-to-release	8040/1180X-10L07SA05 1x red emergency stop D.38 mm 1/4 turn release 1 NO+1 NC
STA130665	Mushroom button key-release	8040/1180X-09XXXSA05 1 x emergency stop with key 1 NO+1 NC
STA130692	1 green & 1 red	8040/1280X-01L13SA05-01L08SA05 2 x 001 pushbuttons with 1 NO+1 NC
STA130898	Indicator and double pushbutton	8040/1280X-54C06XXXX-23D01SA05 1 x indicator + 1 x double pushbutton 1 NO+1 NC



ATEX control devices for zones 1, 2, 21 & 22

Mounting on standard enclosure with connection chamber and M16 cable gland (4...9 mm).

Type	Designation	Reference
	8003/111-001 pushbutton NC-NO connection by spring-loaded terminals	STA269763
	8003/121-001 pushbutton 2 NC connection by spring-loaded terminals	STA269766
	8003/131-001 pushbutton 2 NO connection by spring-loaded terminals	STA269767
Emergency stop Turn-to-release 	8003/111-010 emergency stop, turn-to-release 38 mm NC-NO connection by spring-loaded terminals	STA269835
	8003/121-010 emergency stop, turn-to-re- lease 2 NC connection by spring-loaded terminals	STA269836
Indicator 	8013/311-al Indicator light EEXe 12/254 VAC/DC spring-loaded terminals	STA269658



ATEX sockets for zones 1, 2, 21 & 22

Reference	Type	Poles	Voltage	Frequency	Colour
STA243157	Very low voltage 16 A socket 8573/13-200	2P	20-25 V	50/60 Hz	purple
STA243197	Very low voltage 16 A plug 8573/12-200	2P	20-25 V	50/60 Hz	purple
STA243182	Very low voltage 16 A coupler 8573/14-300	2P	20-25 V	50/60 Hz	purple
STA150578	16 A switch socket 8570/11-306	3P (2P+E)	200-250 V	50/60 Hz	blue
STA150550	16 A switch socket 8570/11-406	4P (3P+E)	380-415 V	50/60 Hz	red
STA150579	16 A plug 8570/12-306	3P (2P+E)	200-250 V	50/60 Hz	blue
STA150551	16 A plug 8570/12-406	4P (3P+E)	380-415 V	50/60 Hz	red
STA150890	32A switch socket 8571/11-406	4P (3P+E)	380-415 V	50/60 Hz	red
STA150891	32 A plug 8571/12-406	4P (3P+E)	380-415 V	50/60 Hz	red



8146 FNA polyester junction boxes for non-armoured cable, with polyamide cable glandATEX II 2 G/D Ex e/i IIC T6, Zone 1-2-21-22. 4 mm² screw terminals, IP66/65, cable gland on bottom.

Available up to 27 pairs in Ex e/Ex l or 37G on request

BJ Ex e: Terminal block with 4 mm² terminals + 1 protective earth rail or shielding continuity bars + 1 Y/G terminal + 4 mm² through-wired earth, with black polyamide cable gland, corresponding to the total number of holes, of which 50% fitted with blanking plugs, and an M25 plug (to mount a vent if requested, IP65).



Reference	Application	Protection	Type	Dimensions (mm)	Nbr terminals	Nbr shielding continuity rails	Protective earth rail	Cable gland
STA212841	Instrum.	EX e	7 pairs	340.5 x 170 x 91	14	7		1xM32-7xM20
STA212843			12 pairs	340.5 x 170 x 91	24	12		1xM32-12xM20
STA212845			19 pairs	340.5 x 170 x 150	38	19		1xM40-19xM20
STA212855	Elec.	EX e	7G	227 x 170 x 91	6		1x7x4 mm ²	1xM25-3xM20
STA212856			12G	340.5 x 170 x 91	11		1x18x4 mm ²	1xM32-6xM20
STA212857			19G	340.5 x 170 x 91	18		1x18x4 mm ²	1xM40-9xM20

8146 FA polyester junction boxes for armoured cable, with holes without cable gland

ATEX II 2 G/D Ex e/i IIC T6, Zone 1-2-21-22.

BJ Instrumentation: Terminal block with 2.5 mm² terminals (beige) + shielding continuity bars + 1 G/Y terminal + 10 mm² through-wired earth + 2 mm internal brass plate with M20 inlet holes and multi entry.

BJ Electricité: Terminal block with 4 mm² terminals (beige) + 1 protective earth rail + 1 G/Y terminal + 10 mm² through-wired earth + 2 mm internal brass plate with M20 inlet holes and multi entry.

Option: M20 IP66 breathing gland instead of an M20 plug



Reference	Application	Protection	Type	Dimensions (mm)	Nbr terminals	Nbr shielding continuity rails	Protective earth rail	Cable gland
STA99212860	Instrum.	EX e	7 pairs	340.5 x 170 x 91	14	7		1xM25-7xM20
STA99137227			12 pairs	340.5 x 170 x 91	24	12		1xM25-12xM20
STA99212862			19 pairs	340.5 x 170 x 150	38	19		1xM32-19xM20
STA99212870	Elec.	EX e	7G	227 x 170 x 91	6		1x7x4 mm ²	1xM20-3xM20
STA99212921			12G	340.5 x 170 x 91	11		1x18x4 mm ²	1xM25-6xM20
STA99137305			19G	340.5 x 170 x 91	18		1x18x4 mm ²	1xM32-9xM20
STA99212922			27G	340.5 x 170 x 150	26		1x18x4 mm ²	1xM32-13xM20
STA99212923			37G	340.5 x 170 x 150	36		1x18x4 mm ²	1xM40-18xM20

**8118 polyester junction boxes for armoured cable, with holes or cable gland**

ATEX II 2 G/D Ex e IIC T6, Zone 1-2-21-22. Screw terminal or cable clamp, IP66, with holes or polyamide cable gland, with or without integrated brass plate on each side.

Reference	Application	Protection	Type	Dimension (mm)	Nbr terminals	Position	Armoured cable	Hole
STA133117	Elec.	EX e	4 mm ² screw terminal	115 x 115 x 64	6		Yes	4xM20
STA133248	Elec.	EX e	cable clamp	85 x 85 x 55	5		No	3 M20 cable glands + 1 M20 plug
STA133114	Elec.	EX e	cable clamp	115 x 115 x 64	8		No	3 M25 cable glands + 1 M25 plug
STA133120	Elec.	EX e	cable clamp	115 x 115 x 64	8		No	4 M20 cable glands + 2 plugs

Contact us for other junction box compositions.**ATEX light switches for zones 1, 2, 21 & 22**

Reference	Designation
STA245655	8040/11-V30-033 2-pole ON/OFF light switch
STA245657	8040/11-V30-035 2-way light switch

**ATEX junction boxes for zones 1, 2, 21 & 22 - Series 8102**

Reference	Designation
STA132988	8102/21-31 EExe junction box 3 M20 moulded polyamide cable glands 4x4 mm ² terminals



Analogue measurement converters and isolation amplifiers

Accuracy of 0.1% over the whole range, wide temperature range from -25°C to + 70°C.

Spring connections.

“Clipping” function limiting the analogue standard signal to the final values of the measurement range.

857 series

6 mm pitch

Universal converters, configuration by DIP switch

Ref.	Input			Output		
	Current (mA)	Voltage	2-pole signals	Current (mA)	Voltage (V)	2-pole signals
WAG857400	0...20	0...5 V		0...20	0...5	
	4...20	1...5 V		4...20	1...5	
		0...10 V			0...10	
		2...10 V			2...10	
WAG857402	0...0.3 to 0...100	0...60 mV to 0...200 V	+/- 0.3 mA to +/- 100 mA +/- 60 mV to +/- 200 V		0...5 1...5 0...10 2...10	+/- 10 mA +/- 20 mA +/- 5 V +/- 10 V

Temperature measurement converters, configuration by DIP switch

Ref.	Input			Output	
	T° sensor	R	Type of connection	I (mA)	U (V)
WAG857800 <i>For probe</i>	Pt100		2 wires	0...10	0...5
	Pt200	0...1 kΩ	3 wires	2...10	1...5
	Pt500		4 wires	0...20	0...10
	Pt1000	0...4.5 kΩ		4...20	2...10
WAG857810 <i>For thermocouple</i>	Type J, K			0...10	0...5
				2...10	1...5
				0...20	0...10
				4...20	2...10

Series 857 and 2857

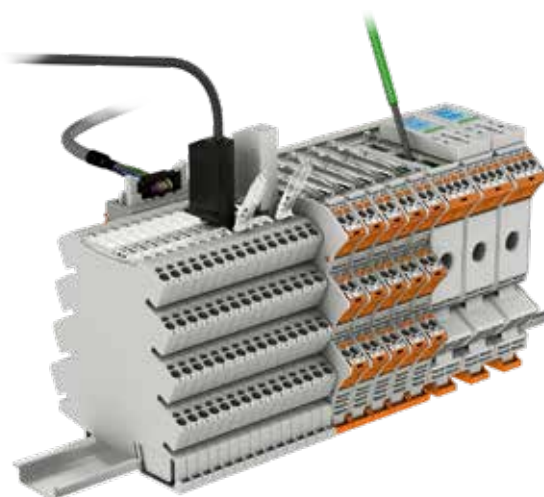
Width of 12 or 24 mm

Universal converter

Ref.	Input			Output		
	Current (mA)	Voltage (V)	2-pole signals	I (mA)	U (V)	2-pole signals
WAG2857401	0...1		+/- 1 mA			
	0...10		+/- 10 mA			
	2...10		+/- 20 mA			
	0...20		+/- 100 mA			
	4...20			0...10	0...5	+/- 10 mA +/- 20 mA
	0...100			2...10	1...5	
		0...5		0...20	0...10	
		1...5		4...20	2...10	
		0...10	+/- 1 V			+/- 5 V +/- 10 V
		2...10	+/- 10 V			
		0...220	+/- 30 V			
			+/- 100 V			
			+/- 200 V			

Preset isolation amplifiers

Ref.	Input		Output	
	Current (mA)	Voltage (V)	Current (mA)	Voltage (V)
WAG857411	0(4)...20		0(4)...20	
WAG857412		0(2)...10		0(2)...10
WAG857451 <i>Passive isolator</i>	0(4)...20		0(4)...20	

**Current converter**

Ref.	Input	Output		
	Current	I (mA)	U (V)	2-pole signals
WAG2857550	AC/DC 100 A	0...10	0...5	+/- 10 mA
		2...10	1...5	+/- 20 mA
		0...20	0...10	+/- 5 V
		4...20	2...10	+/- 10 V
WAG857550 <i>For current transformer</i>	AC/DC 1 A AC/DC 5 A	0...10	0...5	
		2...10	1...5	
		0...20	0...10	
		4...20	2...10	

Several configuration possibilities**Switches****Free software**

USB cable:
Ref.: WAG750923

Smartphone app

Bluetooth® adapter:
Ref.: WAG750921

Removable display

Ref.:
WAG2857900

AUTOMATION, NETWORKS AND VARIABLE SPEED DRIVES



TITLE	BRAND	PAGE
Variable speed drives and starters	ABB	I.2
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Non-managed switches.....	HIRSCHMANN	I.7
Encoders, counters, displays, slip rings	KUBLER	I.8
LOGO!	SIEMENS.....	I.10
UPS	SOCOMEK	I.11

ACS150 range variable speed drives: 0.37 to 4 kW

Compact, powerful Micro Drive with numerous features for simple applications (conveyor, pump):

230 V single-phase or 380 V three-phase up to 480 V input voltage.

Side-by-side screw-mounting or on DIN rail. Configuration by user-friendly LCD Micro user panel.

Alphanumerical screen. 5 digital inputs, 1 analogue input, 1 relay output.

Integrated features: Brake chopper. RFI filter. PID regulation, scalar control. Potentiometer integrated into the front panel.

230 V single-phase		
Power kW (nominal)	In A (nominal)	Filtered version reference*
0.37	2.4	ABBACS150-01E-02A4-2
0.75	4.7	ABBACS150-01E-04A7-2
1.1	6.7	ABBACS150-01E-06A7-2
1.5	7.5	ABBACS150-01E-07A5-2
2.2	9.8	ABBACS150-01E-09A8-2

* removable filter

380 V three-phase		
Power kW (nominal)	In A (nominal)	Filtered version reference*
0.37	1.2	ABBACS150-03E-01A2-4
0.55	1.9	ABBACS150-03E-01A9-4
0.75	2.4	ABBACS150-03E-02A4-4
1.1	3.3	ABBACS150-03E-03A3-4
1.5	4.1	ABBACS150-03E-04A1-4
2.2	5.6	ABBACS150-03E-05A6-4
3	7.3	ABBACS150-03E-07A3-4
4	8.8	ABBACS150-03E-08A8-4

* removable filter



ACS150

ACS480 range variable speed drives: 0.75 to 22 kW

General use variable speed drive 100% compatible and easy to use for simple applications (fan, pump, conveyor, compressor):

Three-phase input voltage, 380 to 480 V.

IP20 protection, optimised for mounting in cabinet.

Room temperature -10 to +50°C without derating.

Configuration by removable micro-user panel. Extended I/O connections.

Asynchronous motor control with permanent magnet and synchronous reluctance.

6 digital inputs, 2 analogue inputs, 3 relay outputs, 2 analogue outputs.

Energy-saving functions and display of CO₂ emissions.

Integrated features:

Safe Torque Off SIL 3/PL e. Modbus RTU protocol.

Brake chopper. C2 EMC filter. PID controllers.

USB interface for the connection of programming and maintenance tools on PC.

Connectivity option on Profinet IO, or Profibus, or EtherNet/IP, or Modbus TCP network

Power (N) kW	In A	Filtered version reference*
0.75	2.6	ABBACS480-04-02A7-4
1.1	3.3	ABBACS480-04-03A4-4
1.5	4	ABBACS480-04-04A1-4
2.2	5.6	ABBACS480-04-05A7-4
3	7.2	ABBACS480-04-07A3-4
4	9.4	ABBACS480-04-09A5-4
5.5	12.6	ABBACS480-04-12A7-4
7.5	17	ABBACS480-04-018A-4
11	25	ABBACS480-04-026A-4
15	32	ABBACS480-04-033A-4
18.5	38	ABBACS480-04-039A-4
22	45	ABBACS480-04-046A-4
22	50	ABBACS480-04-050A-4

* removable filter



ACS480

ACS580 range variable speed drives: 0.75 to 250 kW three-phase 380/415 V and up to 480V, IP21 or IP55 (-15 to + 50°C)

General use variable speed drive 100% compatible for a wide range of applications, e.g. centrifugal pump, vacuum pump, volumetric pump, fan, compressor, conveyor, mixer, extruder

Characteristics identical to the ACS480

Power (N) kW	In A	Filtered version reference - IP21*	Filtered version reference - IP55*
0.75	2.6	ABBACS580-01-02A7-4+J400	ABBACS580-01-02A7-4+B056+J400
1.1	3.3	ABBACS580-01-03A4-4+J400	ABBACS580-01-03A4-4+B056+J400
1.5	4	ABBACS580-01-04A1-4+J400	ABBACS580-01-04A1-4+B056+J400
2.2	5.6	ABBACS580-01-05A7-4+J400	ABBACS580-01-05A7-4+B056+J400
3	7.2	ABBACS580-01-07A3-4+J400	ABBACS580-01-07A3-4+B056+J400
4	9.4	ABBACS580-01-09A5-4+J400	ABBACS580-01-09A5-4+B056+J400
5.5	12.6	ABBACS580-01-12A7-4+J400	ABBACS580-01-12A7-4+B056+J400
7.5	17	ABBACS580-01-018A-4+J400	ABBACS580-01-018A-4+B056+J400
11	25	ABBACS580-01-026A-4+J400	ABBACS580-01-026A-4+B056+J400
15	32	ABBACS580-01-033A-4+J400	ABBACS580-01-033A-4+B056+J400
18.5	38	ABBACS580-01-039A-4+J400	ABBACS580-01-039A-4+B056+J400
22	45	ABBACS580-01-046A-4+J400	ABBACS580-01-046A-4+B056+J400
30	62	ABBACS580-01-062A-4+J400	ABBACS580-01-062A-4+B056+J400
37	73	ABBACS580-01-073A-4+J400	ABBACS580-01-073A-4+B056+J400
45	88	ABBACS580-01-088A-4+J400	ABBACS580-01-088A-4+B056+J400
55	106	ABBACS580-01-106A-4+J400	ABBACS580-01-106A-4+B056+J400
75	145	ABBACS580-01-145A-4+J400	ABBACS580-01-145A-4+B056+J400
90	169	ABBACS580-01-169A-4+J400	ABBACS580-01-169A-4+B056+J400
110	206	ABBACS580-01-206A-4+J400	ABBACS580-01-206A-4+B056+J400
132	246	ABBACS580-01-246A-4+J400	ABBACS580-01-246A-4+B056+J400
160	293	ABBACS580-01-293A-4+J400	ABBACS580-01-293A-4+B056+J400
200	363	ABBACS580-01-363A-4+J400	ABBACS580-01-363A-4+B056+J400
250	430	ABBACS580-01-430A-4+J400	ABBACS580-01-430A-4+B056+J400

* removable filter



ACS580

PSR soft starter

Compact and adapted to all applications

Two-phase input voltage, 208 to 600 VAC.

Control supply voltage 24 VAC/DC or 100 to 240 VAC.

Operating current 3 to 105 A.

Room temperature, -25 to +60°C.

Rail-mounted or screw-mounted. Adjustment by three potentiometers.

ON signal relay. End-of-ramp signal relay (digital).

Built-in bypass to save energy and facilitate installation.

Connection kits available to connect to ABB manual motor starters (MMS).

Control voltage 24 VAC/DC 50/60 Hz		
Power at 400 V	Current (A)	Reference
5.5	12	1SFA896106R1100
7.5	16	1SFA896107R1100
11	25	1SFA896108R1100
15	30	1SFA896109R1100
18.5	37	1SFA896110R1100
22	45	1SFA896111R1100
30	60	1SFA896112R1100
37	72	1SFA896113R1100

Control voltage 100..240 VAC 50/60 Hz		
Power at 400 V	Current (A)	Reference
4	9	1SFA896105R7000
5.5	12	1SFA896106R7000
7.5	16	1SFA896107R7000
11	25	1SFA896108R7000
15	30	1SFA896109R7000
18.5	37	1SFA896110R7000
22	45	1SFA896111R7000
30	60	1SFA896112R7000
37	72	1SFA896113R7000



PSR16007

EasyE4: the new logic module

The powerful EasyE4 logic module designed to control machines and automation installations follows on from the Easy500, Easy700 and Easy800 series.

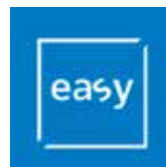
EasyE4 offers undisputed flexibility for communication and programming with EasySoft 7 and modular scalability.

Its communication interfaces continue the trend towards the operator terminals of the future and mean it is also ready for the IIoT (Industrial Internet of Things) system.

The existing Easy family can be entirely replaced, retaining the same source program.



188 I/O available on the same unit
covering a wide range of applications.



Four programming languages
EDP, LD, ST, FBD.



The Ethernet interface
enables a wide range of
improved communication.



Up to 11 local extension modules
per base unit.



The interrupt functions enable rapid
event recognition and response times.



The option to use a mix of AC/DC/UC
modules allows for highly flexible applications.



Various display and visualisation options via
the built-in display, web server and Ethernet.

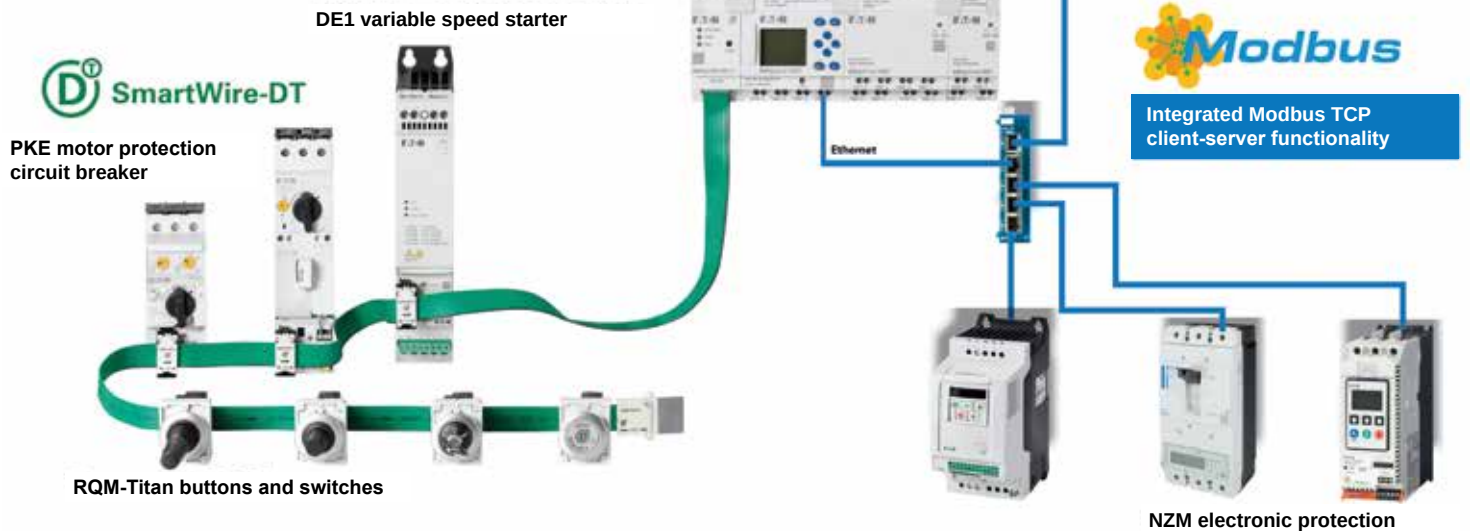
EasySoft 7: intuitive, simple and user-friendly

The user-friendly easySoft 7 software makes programming devices quick and easy. Circuit diagrams can be easily created and adjusted via a PC or directly on the device. The software includes new functional blocks: datalogging, alarm, emails, real-time clock, etc.

Available programming languages:

- Ladder diagram (LD) for the creation of programs according to electricians' circuit diagrams.
- Easy Device Programming(EDP) allows you to transfer existing EasySoft programs (Easy5/7/8) to EasyE4.
- Function block diagram (FBD) for a quick overview of the various functions.
- Structured text (ST) to facilitate programming by the automation specialists.





Base modules:

Description	Inputs		Outputs		Display + keys	Designation
	Digital	Ana.	Relay (8A)	Transistor		Reference
Base device 12/24 VDC, 24 VAC, display, data entry keys, screw terminals, real-time clock	4	4	4	-	✓	EASY-E4-UC-12RC1 EAT000197211
Base device 12/24 VDC, 24 VAC, screw terminals, real-time clock	4	4	4	-	-	EASY-E4-UC-12RCX1 EAT000197212
Base device 24 VDC, display, data entry keys, screw terminals, real-time clock	4	4	-	4	✓	EASY-E4-DC-12TC1 EAT000197213
Base device 24 VDC, screw terminals, real-time clock	4	4	-	4	-	EASY-E4-DC-12TCX1 EAT000197214
Base device 100-240 VAC/DC, display, data entry keys, screw terminals, real-time clock	8	-	4	-	✓	EASY-E4-AC-12RC1 EAT000197215
Base device 100-240 VAC/DC, screw terminals, real-time clock	8	-	4	-	-	EASY-E4-AC-12RCX1 EAT000197216



EASY-E4-DC-12TC1



EASY-E4-DC-12TCX1

Expansion modules:

Description	Inputs		Outputs		Designation	
	Digital	Ana.	Relay (8A)	Transistor	Ana.	Code
Digital inputs/outputs 12/24 VDC, 24 VAC, screw terminals	4	-	4	-	-	EASY-E4-UC-8RE1 EAT000197217
Digital inputs/outputs 12/24 VDC, 24 VAC, screw terminals	8	-	8	-	-	EASY-E4-UC-16RE1 EAT000197218
Transistor inputs/outputs, 0.5 A, screw terminals	4	-	-	4	-	EASY-E4-DC-8TE1 EAT000197219
Transistor inputs/outputs, 0.5 A, screw terminals	8	-	-	8	-	EASY-E4-DC-16TE1 EAT000197220
Digital inputs/outputs 100/110/230/240 VAC, screw terminals	4	-	4	-	-	EASY-E4-AC-8RE1 EAT000197221
Digital inputs/outputs 100/110/230/240 VAC, screw terminals	8	-	8	-	-	EASY-E4-AC-16RE1 EAT000197222
Analogue inputs/outputs, 0 - 10 V / 0/4 - 20 mA, 12 bit, screw terminals, configurable by channel	-	4	-	-	2	EASY-E4-DC-6AE1 EAT000197223
Temperature input, 3 wires Pt100/1000/Ni1000, 12 bit, screw terminals, configurable measuring range*	-	4	-	-	-	EASY-E4-DC-4PE1 EAT000197224



EASY-E4-DC-8TE1



EASY-E4-DC-16TE1

* PT100, PT1000 -100 - +200°C, -100 - +400°C, -100 - +800°C, Ni1000 - 50 - +100°C, - 50 - +200°C.
[°C] or [°F], Scaling, 12-bit resolution, 0-4095

Smartwire-DT communication kit:

Reference	Designation	Description
EAT000199507	EASY-BOX-E4-UC-SWD1	EASY-E4-UC-12RC1 base unit, Smartwire-dt EASY-COM-SWD-C1 communication module, easySoft 7 software license, RJ45 connection cable
EAT000199508	EASY-BOX-E4-UCX-SWD1	EASY-E4-UC-12RCX1 base unit, Smartwire-dt EASY-COM-SWD-C1 communication module, easySoft 7 software license, RJ45 connection cable
EAT000199509	EASY-BOX-E4-DC-SWD1	EASY-E4-DC-12TC1 base unit, Smartwire-dt EASY-COM-SWD-C1 communication module, easySoft 7 software license, RJ45 connection cable
EAT000199510	EASY-BOX-E4-DCX-SWD1	EASY-E4-DC-12TCX1 base unit, Smartwire-dt EASY-COM-SWD-C1 communication module, easySoft 7 software license, RJ45 connection cable
EAT000199511	EASY-BOX-E4-AC-SWD1	EASY-E4-AC-12RC1 base unit, Smartwire-dt EASY-COM-SWD-C1 communication module, easySoft 7 software license, RJ45 connection cable
EAT000199512	EASY-BOX-E4-ACX-SWD1	EASY-E4-AC-12RC1X base unit, Smartwire-dt EASY-COM-SWD-C1 communication module, easySoft 7 software license, RJ45 connection cable



EASY-BOX-E4-UC-SWD



EASY-BOX-E4-UCX-SWD1

Display and software:

Reference	Designation	Description
EAT000199740	EASY-RTD-DC-43-03B1-00	4.3" touchscreen for remote easyE4 display and control. Programmable in easySoft with the "D" display function block.
EAT000198513	XV-102-A0-35TQRB-1E4	3.5" touchscreen. Programmable with the "DEMO" version of Galileo 10.
EAT000199734	XV-102-A3-57TVRB-1E4	5.7" touchscreen. Programmable with the "DEMO" version of Galileo 10.
EAT000197226	EASYSOFT-SWLIC	Licence for the easySoft 7 programming software



EASY-RTD-DC-43-03B1-0



XV-102-A0-35TQRB-1E4

Optional accessories:

Reference	Designation	Description
EAT000229424	EASY200-POW	Single-phase 100-240 VAC / 24 VDC / 12 VDC, 0.35 A / 0.02 A power supply
EAT000212319	EASY400-POW	Single-phase 100-240 VAC / 24 VDC, 1.25 A power supply
EAT000191087	MEMORY-SDU-A1	2 GB SD card with adapter
EAT000199513	EASY-E4-CONNECT1-COM1	Spare easyConnect 3 connectors for base module and easy-COM communication module, 3 protection covers
EAT000197225	EASY-E4-CONNECT1	Spare easyConnect 3 connectors, 3 protection covers
EAT000199711	XN-332-5ETH-UMS	5 port 10/100 Mbit/s Ethernet switch, 24 VDC power supply



XN-332-5ETH-UMS



EASY400-POW

Order your starter kit now!

EASY-BOX-E4-UC, ref.: EAT000197227

EASY-E4-UC-12RC1 base device, 24 VAC, 12/24 VDC,
8 digital inputs, 4 outputs (8 A relay)
Licence coupon for easySoft V7
RJ45 connection cable
easyE4 flyer



RTD-BOX-E4-UC1, ref.: EAT000199785

EASY-E4-UC-12RC1 base device, 24 VAC, 12/24 VDC,
8 digital inputs, 4 outputs (8 A relay)
EASY-RTD-DC-43-03B1-00 remote touchscreen
Licence coupon for easySoft V7
RJ45 connection cable
easyE4 flyer



Non managed switches

Spider III range

Standard Line

IP30

Dry contact

Power supply: 12 VDC, 24 VDC

Standards: EC, cUL61010, FCC, C-TiC, EAC

Reference	Designation
HIR942132001	SPIDER III SL 5 x 10/100 TX
HIR942132016	SPIDER III SL 5 x 10/100 TX -40 +70°C
HIR942132002	SPIDER III SL 8 x 10/100TX
HIR942132017	SPIDER III SL 8 x 10/100 TX -40° +70°C
HIR942132003	SPIDER III SL 5 x 10/100/1000 TX
HIR942132004	SPIDER III SL- 8 x 10/100/1000 TX
HIR942132005	SPIDER III SL-1 x 10/100-TX, 1 x 100-FX, MM, SC
HIR942132006	SPIDER III SL-1 x 10/100-TX, 1 x 100-FX, SM, SC
HIR942132007	SPIDER III SL-4 x 10/100-TX, 1 x 100-FX, MM, SC
HIR942132009	SPIDER III SL-4 x 10/100-TX, 1 x 100-FX, SM, SC
HIR942132012	SPIDER III SL-6 x 10/100-TX, 2 x 100-FX, MM, SC
HIR942132013	SPIDER III SL-6 x 10/100-TX, 2 x 100-FX, SM, SC
HIR942132014	SPIDER III SL-6 x 10/100/1000-T, 1 x FE/GE SFP
HIR942132015	SPIDER III SL-6 x 10/100/1000-T, 2 x FE/GE SFP



Premium Line

Configurable: QoS, USB port, backup, port deactivation, Broadcast management, Multicast

-40 + 70°C

Metal housing

Dry contact

Power supply: 12, 24, 48 VDC

Reference	Designation
HIR942141016	SPIDER III PL-5 x 10/100-TX
HIR942141017	SPIDER III PL-8 x 10/100-TX
HIR942141019	SPIDER III PL-5 x 10/100/1000-T
HIR942141022	SPIDER III PL-1 x 10/100-TX, 1 x 100-FX, MM, SC
HIR942141023	SPIDER III PL-1 x 10/100-TX, 1 x 100-FX, SM, SC
HIR942141024	SPIDER III PL-4 x 10/100-TX, 1 x 100-FX, MM, SC
HIR942141026	SPIDER III PL-4 x 10/100-TX, 1 x 100-FX, SM, SC
HIR942141027	SPIDER III PL-6 x 10/100-TX, 3 x FE SFP slot
HIR942141030	SPIDER III PL-7 x 10/100-TX, 2 x 100-FX, MM, SC
HIR942141031	SPIDER III PL-7 x 10/100-TX, 2 x 100-FX, SM, SC
HIR942141033	SPIDER III PL-1 x 10/100/1000-T, 1 x FE/GE SFP slot
HIR942141034	SPIDER III PL-4 x 10/100/1000-T, 1 x FE/GE SFP slot



Rotary measurement



Miniature



Standard



Ethernet standard



Large bore
Heavy Duty



Inclinometers

Reference	Designation
KUB8KIS40...	Sendix KIS40 compact incremental encoders with output shaft
KUB8KIH40...	Sendix KIH40 compact incremental encoders with hollow shaft
KUB85000...	Sendix 5000 standard incremental encoders with output shaft, with free 24ONE service
KUB85020...	Sendix 5020 standard incremental encoders with hollow shaft, with free 24ONE service
KUB8F586812CNC122	Sendix standard absolute multiturn encoder, version with output shaft, Profinet
KUB8F58885BCNC122	Sendix standard absolute multiturn encoder, version with hollow shaft, Profinet
KUB8F586812ANA222	Sendix standard absolute multiturn encoder, version with output shaft, Ethernet IP
KUB8F58885BANA222	Sendix standard absolute multiturn encoder, version with hollow shaft Ethernet IP
KUB050060418211005M	M12, 8-pin connection cable - A-coded - with 5 m of PVC cable
KUB050060E18211005M	M12, 8-pin connection cable - A-coded - with 5 m of PUR cable
KUB050060616211005M	M12, 4-pin connection cable - A-coded - with 5 m of PUR cable power supply for Ethernet encoders
KUB050060314411005M	M12, 4-pin connection cable - D-coded - with 5 m of PUR cable Ethernet network
KUB8001021000000	Flange for output shaft encoder, standard
KUB8001021800000	Adapter flange to convert from a standard flange to a synchro flange
KUB8001023000000	Bracket for output shaft encoder, standard
KUB800001K011010	Double-loop coupling, 10/10 mm bores for output shaft encoders, standard
KUB8001040E00000	Flexible arm for hollow shaft encoder, standard
KUB800104R000000	Flexible arm for hollow shaft encoder, standard
KUB050060314511005M	M12 5p 90° connection cable - D-coded with 5 m of cable
KUB050060616311005M	M12 4p 90° connection cable - A-coded with 5 m of cable



M12 connections



M23 connections



Couplings



Reinforced bearings



Immobilisation systems



Limes incremental or
absolute measuring system



Basic, standard
robust, high-performance
cable systems



Compact measuring wheel
systems



Length measurement
with all types of standard encoders

Linear measurement

Reference	Designation
KUB8001070000010	Spring arm for output shaft encoder, standard, Sendix 5000
KUB8000035470010	Measuring wheel, smooth Hytrel, 500 mm
KUB8000035670010	Measuring wheel, rubber with studs, 500 mm
KUB8MWE211112140422000	Measuring system with MWE24 wheel
KUB8MWE211112440422000	Measuring system with MWE22 wheel

Functional safety

Safe motion | Safe stop | Overspeed

Reference	Designation
KUB8SMC24SA442	SIL3 security module - PLe 2 - encoder inputs



Electromechanical counters

Reference	Designation	Dimensions (mm)	Power supply	Reset
KUB1150510013191550	Pulse counters	24 x 48	24 VDC	With
KUB1150510056191550	Pulse counters	24 x 48	230 VAC	With
KUB1740500013191550	Pulse counters	24 x 48	24 VDC	Without
KUB1740500056191550	Pulse counters	24 x 48	230 VAC	Without
KUB0170000075	Hour counter	DIN rail	230 VAC	Without
KUB0170000351	Hour counter	DIN rail	10-27 VDC	Without
KUB3220401075	Hour counter	48 x 48	187-264 VAC/50 Hz	Without
KUB3220401351	Hour counter	48 x 48	10-30 VDC	Without
KUB3245201075	Hour counter	24 x 48	187-264 VAC/50 Hz	Without
KUB3245201351	Hour counter	24 x 48	10-30 VDC	Without



Electromechanical counters

Electronic counters

Reference	Designation	Dimensions (mm)	Display	Power supply
KUB6130012852	Pulse counters	24 x 48	LCD	Dry contact and 4-30 VDC
KUB6130012853	Pulse counters	24 x 48	LCD	2-250 VAC/DC
KUB6134012850	Hour counter	24 x 48	LCD	Dry contact
KUB6134012851	Hour counter	24 x 48	LCD	4-30 VDC
KUB6134012853	Hour counter	24 x 48	LCD	12-250 VAC/DC
KUB6524012300	Multi-function counter	24 x 48	LED	NPN-PNP 10-30 VDC
KUB69240103000	Multi-function counter with 2 preselections	48 x 48	LED	NPN-PNP 90-260 VAC
KUB69240103300	Multi-function counter with 2 preselections	48 x 48	LED	NPN-PNP 10-30 VDC
KUB6560010000	Multi-function counter with 2 preselections	48 x 96	LED	NPN-PNP 90-260 VAC
KUB6560010300	Multi-function counter with 2 preselections	48 x 96	LED	NPN-PNP 10-30 VDC
96 x 48 display				
Configurable: 2 lines of 8 digits or 4-digit full-screen display. Touchscreen interface. IP65 front panel. 2 relay outputs				
KUB6571T0103A0	Multi-function counter with touchscreen - 18 - 30 VDC power supply High-speed counting 250 kHz/HTL 1 MHz/RS422			
KUB6571T010EA0	Multi-function counter with touchscreen - 18-30 VDC + 115- 230 VAC power supply High-speed counting 250 kHz/HTL 1 MHz/RS422			



Electronic counters without preselection



Electronic counters with preselection



Process displays



Reference	Designation	Inputs / Outputs	Dimension (mm)	Display	Power supply
KUB6529012300	Process display	Analogue inputs	24 x 48	LED	10-30 VDC
KUB6531012300	Process display	PT100 inputs	24 x 48		10-30 VDC
KUB6532012300	Process display	CT inputs	24 x 48		10-30 VDC
KUB6533012300	Setpoint generator	Analogue outputs	24 x 48		10-30 VDC
KUB6564010000	Temperature display	2 outputs	48 x 96		100-240 VAC
KUB6564010300	Temperature display	2 outputs	48 x 96		10-30 VDC
KUB6564010309	Temperature display	2 outputs + analogue repeater output	48 x 96		10-30 VDC
KUB6565010000	Process display	2 outputs	48 x 96		100-240 VAC
KUB6565010300	Process display	2 outputs	48 x 96		10-30 VDC
KUB6565010309	Process display	2 outputs + analogue repeater output	48 x 96		10-30 VDC
KUB6566010000	Display for strain gauge	2 outputs	48 x 96		100-240 VAC
KUB6566010300	Display for strain gauge	2 outputs	48 x 96		10-30 VDC
KUB6566010309	Display for strain gauge	2 outputs + analogue repeater output	48 x 96		10-30 VDC

A wide choice of CPUs and expansion modules

The LOGO! is the ideal solution for simple automation applications in home automation, infrastructures and industry.

What LOGO! Has to offer: :

- Wide choice of expansion modules for applications up to 60 I/O (24 digital inputs, 20 digital outputs, 8 analogue inputs and 8 analogue outputs)
- Ethernet port, access by Web server or smartphone app.
- Ethernet connection with 16 LOGO! devices or S7 API including an HMI.
- Connection to AWS cloud.
- 6-line display with 16 characters per line, 3 colours.
- Up to 50 messages can be displayed on the built-in screen or the external LOGO! display. TDE.
- Variables stored on SD card.
- Set of 44 instructions, 400 blocks.
- SIPLUS version for use in extreme environments (-40° to +70°C).



Basic units	Reference**
LOGO! 230 RCE, 8 inputs, 115/230 VAC/DC, 4 relay outputs, with display, Ethernet	6ED10521FB080BA1
LOGO! 24 RCE, 8 inputs, 24 VAC/DC, 4 relay outputs, with display, Ethernet	6ED10521HB080BA1
LOGO! 12/24 RCE*, 8 inputs, 12/24 VDC, 4 relay outputs, with display, Ethernet	6ED10521MD080BA1
LOGO! 12/24 RCEo*, 8 inputs, 12/24 VDC, 4 relay outputs, without display, Ethernet	6ED10522MD080BA1
LOGO TDE TEXT DISPLAY ETHERNET	6ED10554MH080BA1

*of which 4 can be used as analogue inputs (0 to 10 V). ** Other references on request.



6ED10521FB080BA1

Expansion modules	Reference**
LOGO! DM8 230 R 4 inputs 115/230 VAC/DC, 4 relay outputs	6ED10551FB000BA2
LOGO! DM8 12/24 R 4 inputs, 12/24 VDC, 4 relay outputs	6ED10551MB000BA2
LOGO! DM16 24 R 8 inputs, 24 VDC, 8 relay outputs	6ED10551NB100BA2
LOGO! AM2 2 analogue inputs (0...10 V, 0/4...20 mA)	6ED10551MA000BA2
LOGO! AM2 RTD 2 inputs PT100 / PT1000	6ED10551MD000BA2
LOGO! AM2 AQ 2 analogue outputs (0...10 V, 0/4...20 mA)	6ED10551MM000BA2



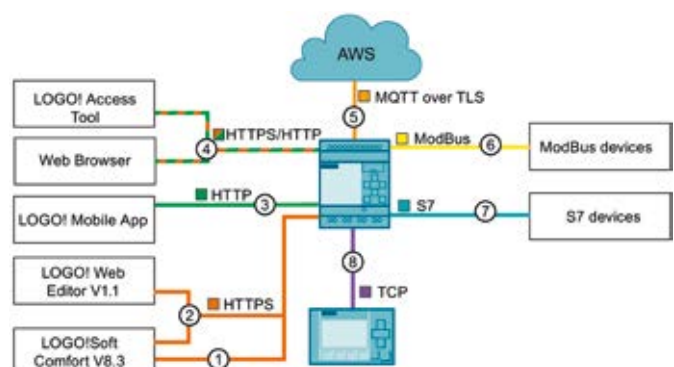
6ED10551FB000BA2

Software and programming cable	Reference**
LOGO! Soft Comfort V 8.3	6ED10580BA080YA1
Ethernet transfer cable, length 2 m	CABRJ45-6-2M

** Other references on request.



6ED10554MH080BA1



Off-Line technology

In this technology, equipment is powered by the mains, and the UPS takes over in case of a power cut. Off-Line UPS are mainly adapted to workstations or for individual use.

Line Interactive technology

With this technology, the input voltage is filtered before being delivered, and the UPS takes over in case of a power cut. This solution avoids switching to battery mode during mains voltage fluctuations, and the current supplied is better quality. These UPS are widely used in IT applications and on disrupted networks.

On Line technology (Double conversion)

For this technology, the current is continuously checked and delivered by the UPS and its batteries, guaranteeing a clean, uniform power supply.

These models are recommended for all strategic applications and severely disrupted networks.

NETYS PL range - Offline - Tower format

Reference	Power	Autonomy*	Connections
SOCNPL-0600-F	600 VA / 360 W	15 min	6 NF sockets, including 4 sockets protected by UPS
SOCNPL-0800-F	800 VA / 480 W	20 min	6 NF sockets, including 4 sockets protected by UPS



NETYS PE range - Interactive Line - Tower format

Reference	Power	Autonomy*	Connections
SOCNPE-B600	600 VA / 360 W	15 min	4 IEC 320 sockets
SOCNPE-0650	650 VA / 360 W	15 min	4 IEC 320 sockets – tel/ADSL protection
SOCNPE-0850	850 VA / 480 W	20 min	4 IEC 320 sockets – tel/ADSL protection
SOCNPE-1000-LCD	1000 VA / 600 W	45 min	4 IEC 320 sockets – tel/ADSL protection
SOCNPE-1500-LCD	1500 VA / 900 W	55 min	6 IEC 320 sockets – tel/ADSL protection
SOCNPE-2000-LCD	2000 VA / 1200 W	60 min	6 IEC 320 sockets – tel/ADSL protection



NETYS PR range - Interactive Line - Tower format

With automatic battery test cycle

Reference	Power	Autonomy*	Connections
SOCNPR-1000-MT	1000 VA / 700 W	45 min	4 IEC 320 sockets – tel/ADSL protection
SOCNPR-1500-MT	1500 VA / 1050 W	55 min	6 IEC 320 sockets – tel/ADSL protection
SOCNPR-2000-MT	2000 VA / 1400 W	60 min	6 IEC 320 sockets – tel/ADSL protection



NETYS PR-RT range - Interactive Line - 19" and Tower format

Addition of extra batteries possible for extended autonomy

Reference	Power	Autonomy*	Connections
SOCNPR-1700-RT	1700 VA / 1350 W	6 min	8 IEC 320 sockets – tel/ADSL protection
SOCNPR-2200-RT	2200 VA / 1800 W	8 min	8 IEC 320 sockets – tel/ADSL protection
SOCNPR-3300-RT	3300 VA / 2700 W	6 min	8 IEC 320 sockets – tel/ADSL protection



ITYS range - Online - Tower format

Addition of extra batteries possible for extended autonomy

Reference	Power	Autonomy*	Connections
SOCITY3-TW010B	1000 VA / 1000 W	12 min	4 IEC 320 sockets
SOCITY3-TW020B	2000 VA / 2000 W	15 min	8 IEC 320 sockets
SOCITY3-TW030B	3000 VA / 3000 W	9 min	8 IEC 320 sockets
SOCITY3-TW060B	6 kVA / 6 kW	10 min	Terminal blocks
SOCITY3-TW108B	8.5 kVA / 8.5 kW	9 min	Terminal blocks
SOCITY3-TW100B	10 kVA / 10 kW	6 min	Single-phase/single phase - Terminal blocks
SOCITY3-TW110B	10 kVA / 10 kW	6 min	3-phase+N/single-phase- Terminal blocks



* All autonomies given are for UPS with 75% load.



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