



New products 2015

Connection and automation technology





New products for 2015 – innovative products for your industrial systems

As a leading manufacturer of connection technology and automation components, we are always working to transform the growing requirements placed on your applications and markets into new innovations. Our products are the nervous system of your industrial system and help you design more efficient processes and reduce costs. Find out about our wide range of new products from the fields of connection technology, automation components, surge protection, marking, and tools.



Find out more with the web code

You can find our web code in each product table: a pound symbol followed by a four-digit number combination (example: # 1234).

This allows you to reach information on our website quickly.

It couldn't be simpler:

1. Go to Phoenix Contact website
2. Enter # and number combination in the search field
3. Receive more information and product variants

Or use the direct link:

phoenixcontact.net/webcode/#1234





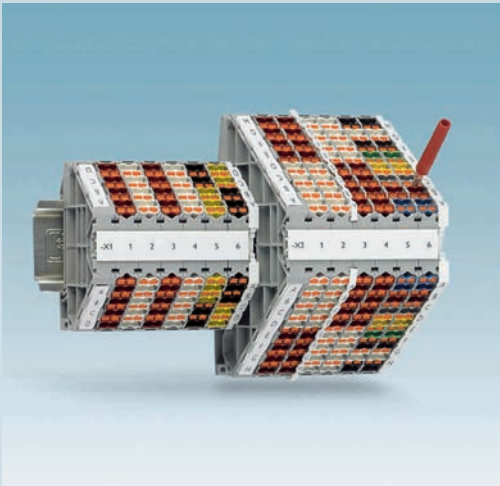
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Marshalling terminals with push-in connection

The compact PTRV marshalling terminals are used to marshal signals in automation applications in a clearly arranged manner. The wiring of a large number of conductors is simplified through levels, which can be designed individually based on color. Together with the front wiring, this helps you prevent errors in the connection.



Your advantages

- ✓ Maximum signal density and up to 20% less space required due to compact design
- ✓ User-configurable assignment of colors to wires and terminal points for an intuitive and secure installation
- ✓ Check conveniently through freely accessible 2.3 mm test connections, centered between the connection points
- ✓ Large-surface, pitch-free marking for matrix labeling
- ✓ Variants available without actuation lever

Main features

- Push-in connection
- Voltage: 250 V
- Current: up to 37 A
- Cross section: up to 2.5 mm²
- 11 configurable colors
- Bridgeable potential distributor, with 4mm² power supply

 Web code: #0039						
	Description	Marshalling terminals	Marshalling terminals (color choice)	Marshalling terminals	Marshalling terminals (color choice)	Potential distributors
Terminal points	16	16	32	32	31	16
Levels /potentials	4	4	8	8	8	4
Actuation lever	Yes	Yes	Yes	Yes	Yes	No
Color	White	Free-choice	White/red	Free-choice/red/white	Gray/black	White
Designation	PTRV 4 /WH	PTRV 4 /COL-COL	PTRV 8 /WHRD	PTRV 8 /COL-RDWH	PTRVB 8-FI	FTRV 4 /WH
Order No.	3270115	3001875	3270133	3001851	3270160	3270169





Modular terminal blocks

Marshalling patchboards with push-in connection

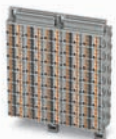
Due to its design, the PTMC marshalling patchboard provides you with the highest signal density during marshalling in automation applications. The modular structure, accurate to the number of poles and with colored matrix elements, ensures clearly arranged and error-free wiring. The individual elements are available in eleven colors.



Your advantages

- ✓ Up to 20% increased signal density due to the compact design
- ✓ Structure that is accurate to the number of poles and compatible with the application due to modular design
- ✓ Check conveniently using freely accessible 2.3 mm test connections, centered next to the connection points
- ✓ Direct, 19" rack and DIN rail mounting
- ✓ Variants available without actuation lever

- Main features**
- Push-in connection
 - Voltage: 500 V
 - Current : up to 17.5 A
 - Cross section: up to 2.5 mm²
 - Individual honeycomb elements in 11 colors, 4 or 6 terminal points

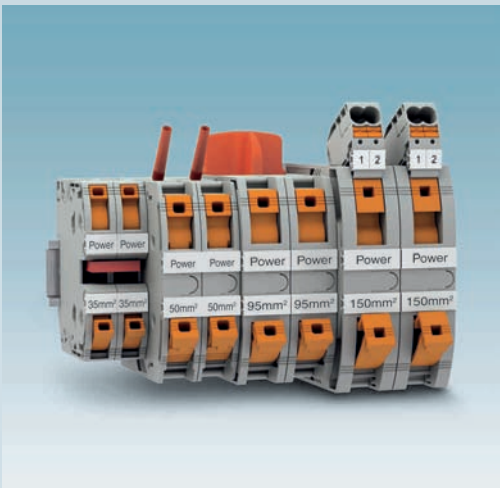
 Web code: #0040						
Description	Individual element	Marshalling patchboard	Marshalling patchboard	Marshalling patchboard	Marshalling patchboard for 19" rack	Individual element
Terminal points	6	192	288	480	192	6
Potentials	1	32	48	80	32	1
Actuation lever	Yes	Yes	Yes	Yes	Yes	No
Color	gray/white	gray/white	gray	gray	gray	gray/white
Designation	PTMC 1,5-3 / WH	PTMC 1,5/32-3	PTMC 1,5/48-3	PTMC 1,5/80-3	PTMC 1,5/32-3 19Z	PTMC 1,5-3 / WH
Order No.	3270301	3270310	3270318	3270324	3270311	3270341





High-current terminal blocks with Power-Turn connection

The high-current terminal blocks with the newly developed Power-Turn connection technology provide you with the fastest and most user-friendly connection option around today for wiring large conductors. Contact conductors up to 150 mm² by simply swiveling the operating lever – done.



Your advantages

- ✓ Easy connection using Power-Turn technology
- ✓ Retrofittable modular terminal blocks for simple voltage tap
- ✓ Bridgeable with insertion or plug-in bridge
- ✓ Continuous labeling and test options
- ✓ Reduced mounting and logistics costs due to pre-assembled terminal block bases

- Main features**
- Power-Turn connection
 - Cross sections: up to 150 mm²
 - Direct and DIN rail mounting
 - Terminal block bases up to 5 poles

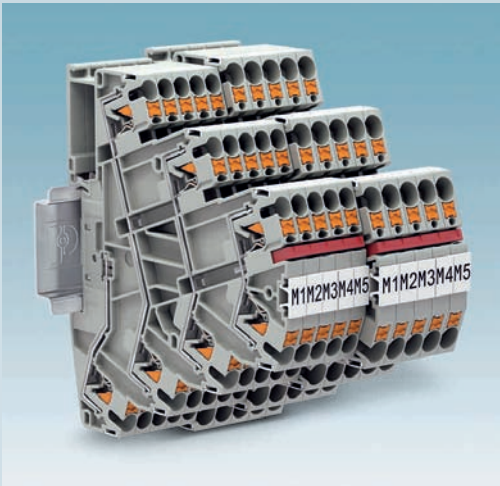
 Web code: #0041				
Description	High-current terminal block	High-current terminal block	High-current terminal block	High-current terminal block
Cross section	35 mm ²	50 mm ²	95 mm ²	150 mm ²
Voltage	1500 V	1500 V	1500 V	1500 V
Current	125 A	150 A	232 A	309 A
Designation	PTPOWER 35	PTPOWER 50	PTPOWER 95	PTPOWER 150
Order No.	3212064	3260050	3260100	3215000





Motor terminals with push-in connection

For simple motor connection: the new four-level terminal blocks for nominal cross sections 2.5 mm² and 4 mm². The terminal blocks enable a simple potential distribution over a function shaft at each level. Furthermore, each terminal block point is equipped with an easy-to-reach test opening.



Your advantages

- ✓ Space-saving since there are three potentials in one terminal housing
- ✓ Bridging option for simple phase bridging at each level
- ✓ Optional level bridging for special applications
- ✓ Suitable for applications up to 600 V in accordance with UL
- ✓ Large-surface marking options

Main features

- Push-in connection
- Voltage: up to 800 V IEC
- Voltage: up to 600 V UL
- Current : up to 32 A

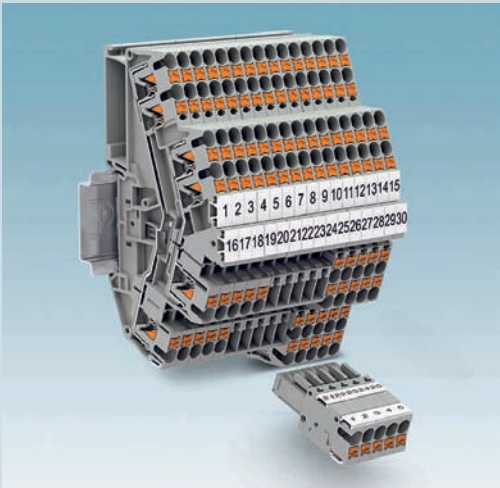
 Web code: #0050				
	Description	Multi-level terminal block	Description	Multi-level terminal block
Cross section		2.5 mm ²		4 mm ²
Terminal points		7		7
Potentials		3+PE		3+PE
Designation		PT 2,5-PE/3L		PT 4-PE/3L
Order No.		3210542		3210442





Multi-level terminal blocks with push-in connection

The new double-level terminal blocks in desk design provide you with a multi-conductor connection on each level. The TWIN variants have two three-conductor connections; the QUATTRO variants have two four-conductor connections. This allows you to reach a high wiring density at low space requirements.



Your advantages

- ✓ Compact due to multi-conductor connection on all levels
- ✓ Space-saving since up to two potentials are possible within one terminal housing
- ✓ Simple potential distribution thanks to level bridges and simple bridging in function shafts
- ✓ Large-scale labels for each level

Main features

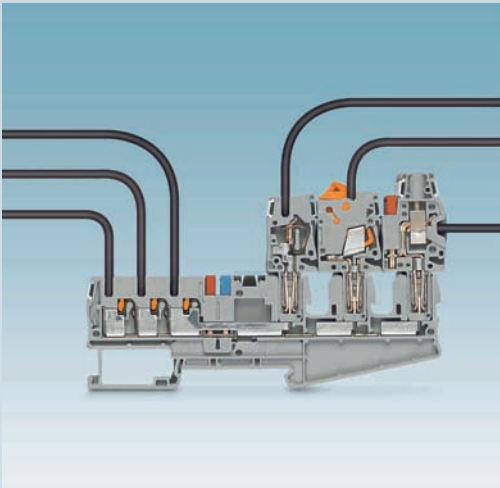
- Push-in connection
- Voltage: 500 V
- Current: 24 A
- Cross section: up to 2.5 mm²

 Web code: #0044				
	Double-level terminal block	Potential distributors	Double-level terminal block	Potential distributors
Terminal points	6	6	8	8
Potentials	2	1	2	1
Designation	PTTBS 2,5-TWIN	PTTBS 2,5-TWIN-PV	PTTBS 2,5-QUATTRO	PTTBS 2,5-QUATTRO-PV
Order No.	3210600	3210603	3210609	3210612



Plug-in terminal blocks with push-in connection

The pluggable modular terminal blocks with push-in connection are now available as multi-conductor variants with up to six contact areas. New to the COMBI product line is a Pin-Pin version with compatible plugs for accepting standard crimp contacts.



Your advantages

- ✓ Maximum safety thanks to touch-proof design
- ✓ Protection against mismatching thanks to individual coding options
- ✓ Simple potential distribution thanks to double function shaft
- ✓ Extensive, optional snap-on accessories available
- ✓ Complete flexibility thanks to plug versions with vertical conductor entry

Main features

- Push-in connection
- Pin-Pin versions
- Plugs for crimp contacts

 Web code: #0045				
	Description	Feed-through terminal block	Double-level terminal block	Feed-through terminal block
Cross section	2.5 mm ²	2.5 mm ²	4 mm ²	4 mm ²
Terminal points	3	4	-	6
Slots	3	2	4	-
Potentials	1	2	1	6
Designation	PT 2,5-HEXA/3P	PTTB 2,5-TWIN/2P	ST 4-QUATTRO/4CP	CP 4/6
Order No.	3040044	3210604	3042736	3061049



Compact disconnect and knife disconnect terminal blocks with push-in connection

The new function terminal blocks with push-in connection are particularly compact. Disconnect, knife disconnect and fuse terminal blocks are now available for use in narrow space conditions. Feed-through terminal blocks of the same shape complete the product range.



Your advantages

- ✓ Convenient separation of circuits using integrated disconnect knife
- ✓ Easy current measurement thanks to testing facility on both sides of the disconnect point
- ✓ Safe operation thanks to locking the disconnect lever in the end positions
- ✓ Clear identification of the disconnect point with color marking
- ✓ Standardized disconnect zone on disconnect terminal blocks for the use of component and function plugs

Main features

- Push-in connection
- Voltage: 400 V
- Current: 20 A
- Fuse-links: 5 x 20 mm

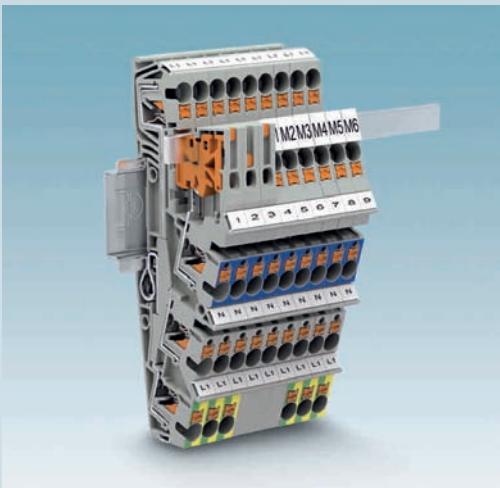
 Web code: #0043						
Description	Knife disconnect terminal block	Disconnect terminal block	Knife disconnect terminal block	Disconnect terminal block	Four-conductor terminal block	Lever-type fuse terminal block
Cross section	2.5 mm²	2.5 mm²	2.5 mm²	2.5 mm²	2.5 mm²	4 mm²
Terminal points	2	2	3	3	4	2
Disconnect knife	1	-	1	-	1	-
Designation	PTC 2,5-MT	PTC 2,5-TG	PTC 2,5-TWIN-MT	PTC 2,5-TWIN-TG	PTC 2,5-QUATTRO-MT	PTC 4-HESILED 24 (5x20)
Order No.	3270079	3270088	3270082	3270091	3270085	3270203





Installation terminal blocks with push-in connection

You can use the new push-in multi-level terminal blocks to wire your building installation in the most narrow of spaces easily and without tools. They are suitable for rigid conductors up to 6 mm² and have all system features of the CLIPLINE complete system.



Your advantages

- ✓ Compact design for use in distribution boards
- ✓ Double function shaft for simple potential distribution on each level
- ✓ Testing option in the function shaft at every terminal point
- ✓ Unique marking of each terminal point
- ✓ Compatible with the Phoenix Contact installation terminal block system

Main features

- Push-in connection
- Voltage: 400 V
- Current: 32 A
- Cross section: 4 mm²

 Web code: #0047						
	Installation terminal block					
Description						
PE connection	Yes	Yes	Yes	Yes	No	No
Disconnect slide	Yes	Yes	No	No	No	No
Potentials	2+PE	2+PE	2+PE	2+PE	2	2
Designation	PTI 4-PE/L/NT	PTI 4-PE/L/LT	PTI 4-PE/L/L	PTI 4-PE/L/N	PTI 4-L/L	PTI 4-L/N
Order No.	3214047	3214048	3214050	3214049	3214052	3214051



Fuse terminal blocks with push-in connection

The lever-type fuse terminal blocks with push-in connection are designed specifically for use in photovoltaics. They are designed for the fuse type 10.3 x 38 mm with gPV characteristics and suitable for fuse-links up to 20 A and 1000 V DC.



Your advantages

- ✓ User-friendly push-in connection
- ✓ Quick identification of triggered fuses thanks to LED status indicator
- ✓ Large-surface marking options
- ✓ Fuse-links in accordance with UL and IEC

Main features

- Push-in connection
- Voltage: 1000 V
- Current: 32 A
- Cross section: 10 mm²

 Web code: #0046					
	Description	Fuse terminal block	Fuse terminal block	Fuse-link in accordance with UL	Fuse-link in accordance with IEC
	LED display	No	LED	No	No
	Current	32 A	32 A	16 A	20 A
	Designation	PT 10,3-HESI 1000V	PT 10,3-HESILED 1000V	FUSE 10,3X38 16A PV A	FUSE 10,3X38 20A PV A
Order No.	3062142	3062143	3062782	3061363	



Hybrid terminal blocks with push-in and screw connection

The new hybrid terminal blocks combine the simple push-in connection with the classic screw connection. This is how you can use various connection methods for the inside and outside of the control cabinet and benefit from the advantages of the respective technology.



Your advantages

- ✓ Meet requirements for internal and external wiring at the same time thanks to different connection methods in a single terminal block
- ✓ Space-saving thanks to the compact design
- ✓ Easy and safe operation thanks to clear indication of switching states
- ✓ Application-compatible design thanks to feed-through and protective conductor terminal blocks of the same size
- ✓ Free choice of connection technology thanks to combination options

Main features

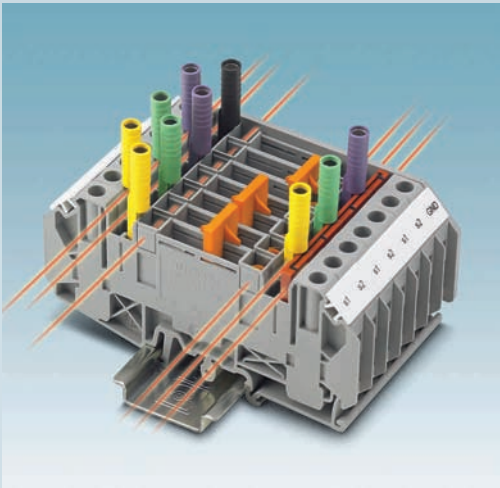
- Push-in and screw connection
- Voltage: up to 800 V
- Current: up to 52 A

 Web code: #0042						
Description	Feed-through terminal block	Knife disconnect terminal block	Disconnect terminal block	Measuring transducer terminal block	Feed-through terminal block	Test adapter
Cross section	4 mm²	4 mm²	4 mm²	6 mm²	6 mm²	-
Terminal points	3	2	2	2	2	-
Disconnect knife/slide	-	1	-	1	-	-
Disconnect zone	-	1	1	1	-	-
Designation	PTU 4-TWIN	PTU 4-MT	PTU 4-TG	PTU 6-T	PTUD 6	PAIS-4-FIX RD
Order No.	3211859	3209538	3209542	3209535	3209531	3032793



Test disconnect terminal blocks with screw connection

Test disconnect terminal blocks offer a high degree of convenience for all the necessary test circuits in secondary current transformer circuits. The knife disconnect terminal blocks with screw connection feature the simple and tool-free operation of the new disconnect knife.



Your advantages

- ✓ Easy and secure operation support through switching symbols
- ✓ Maximum functionality: up to six universal function shafts for potential distribution or test purposes
- ✓ Section disconnecter with screw contact for deliberate switch actions
- ✓ Application-compatible structure with feed-through terminal blocks of the same size
- ✓ Tool-free operation thanks to lever-type disconnect knife

Main features

- Screw connection
- Cross section: up to 6 mm²

 Web code: #0048				
	Description	Test disconnect terminal block	Feed-through terminal block with the same shape	Knife disconnect terminal block
Cross section	6 mm ²	6 mm ²	4 mm ²	6 mm ²
Disconnect slide	Yes	-	-	-
Disconnect knife	-	-	Yes	Yes
Designation	UT 6-T/SP	UTD 6/SP	UT 4-MTL	UT 6-MTL
Order No.	3072815	3072817	3046144	3046145





High-current terminal blocks with screw connection

With a 1500 V nominal voltage, the compact high current terminal blocks with screw connection are ideally suited for use in regenerative energy generation, specifically in photovoltaics. Four integrated pick-off terminal blocks with a 10 mm² cross section provide you with a simple power supply or potential distribution.



Your advantages

- ✓ Compact, space-saving design
- ✓ Easy potential accumulation or distribution through up to five 10 mm² terminal points
- ✓ Bridgeable with screw-type bridge for easy potential distribution
- ✓ Screw connection technology recognized worldwide
- ✓ Large-surface marking options

Main features

- Screw connection
- Voltage: 1500 V
- Current: up to 232 A

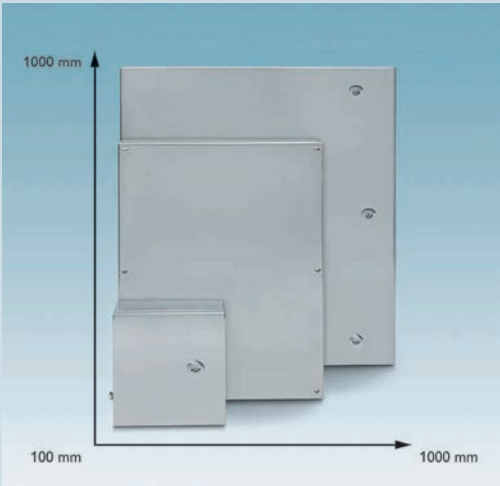
 Web code: #0049				
	High-current terminal block	High-current terminal block	High-current protective conductor terminal	Pick-off terminal block
Terminal points	5	5	5	1
Cross section	70 mm ² /10 mm ²	70 mm ² /10 mm ²	70 mm ² /10 mm ²	10 mm ²
Color	gray	blue	green-yellow	gray
PE connection	No	No	Yes	No
Designation	UKH 70/4X10	UKH 70/4X10 BU	UKH 70/4X10-PE	AGK 10-UKH 50
Order No.	3213142	3213143	3213144	3001763





Stainless steel empty housing for the hazardous area

The new Clipsafe stainless steel housings provide comprehensive protection for your applications in industrial environments and in process technology. The housing product range consists of standardized housings at sizes up to 1000 x 1000 x 300 mm. We can machine these to your specifications if desired.



Your advantages

- ✓ 140 robust standard housings — custom dimensions possible on request
- ✓ Housing made from stainless steel AISI 316L/1.4404, up to 2 mm thick, for uses in extreme conditions
- ✓ IP66 in accordance with EN 60529 and NEMA 4X, in accordance with NEMA 250 for safe use outdoors
- ✓ Flange plates possible on four sides of housing, including patented seal protection
- ✓ Housing adjustments using threads, bore holes and rectangle cutouts with consideration given to normative specifications

Main features

- Approvals: ATEX and IEC Ex
- Temperature range: -55°C to +135°C
- Door opening: up to 135°, interchangeable stop
- Rotatable fixing bracket
- Door and cover versions

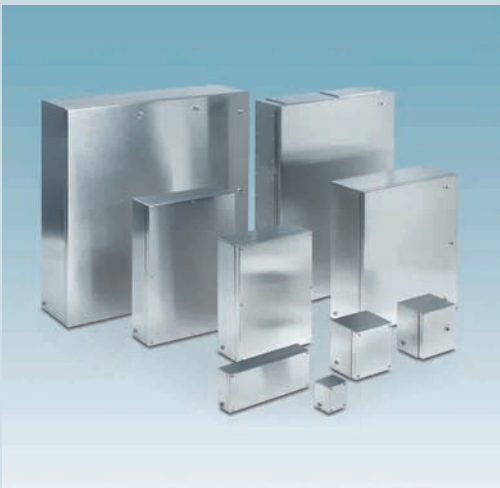
 Web code: #0017					
	Description	Empty housing with cover	Empty housing with door	Empty housing with cover	Empty housing with door
	Dimensions	100 mm x 100 mm x 80 mm	200 mm x 200 mm x 160 mm	500 mm x 400 mm x 160 mm	1000 mm x 1000 mm x 300 mm
	Designation	E S6 A 100X100X80	C1 S6 A 200X200X160	E S6 A 500X400X160	C1 S6 A 1000X1000X300
	Order No.	0899000	0899048	0899033	0899139
Description	Machined empty housing				
Service	Please contact your local Phoenix Contact sales partner.				





Stainless steel terminal boxes for the hazardous area

If desired, you can obtain the new Clipsafe terminal boxes completely equipped with modular terminal blocks and cable glands. They are delivered with a corresponding equipment approval for use in potentially explosive areas.



Your advantages

- ✓ Innovative product range of high-quality stainless steel housings as basis for individual terminal boxes
- ✓ Reduced mounting and approval effort thanks to completely equipped terminal boxes
- ✓ Individual equipment with all approved modular terminal blocks of the CLIPLINE complete system
- ✓ Upon request, can be equipped with approved controller and interface components
- ✓ Professional customer support and short delivery times thanks to worldwide sales network

Main features

- Approvals: ATEX and IEC Ex
- Stainless steel AISI 316L/1.4404
- Material thickness: 1.5 mm - 2 mm
- Temperature range: -55°C to +135°C
- Door opening: up to 135°
- IP66 in accordance with EN 60529
- NEMA 4X in accordance with NEMA 250

	
Description	Equipped terminal boxes
Service	Please contact your local Phoenix Contact sales partner.

Cable glands for the hazardous area

Cable glands for Phoenix Contact Ex applications offer the highest safety in potentially explosive areas of industry. The new plastic screw connections are Ex e/ Ex i-approved and fulfill ATEX and IECEx regulations. Metal screw connections are available in standard and EMC design.



Your advantages

- ✓ Large sealing area and high strain relief force thanks to laminated clamping cage principle
- ✓ Long-term contact of the braided shield using grounding cones in EMC screw connections
- ✓ Vibration-resistant plastic screw connections with protection against stripping the cap nut
- ✓ International approvals

Main features

- Degree of protection: IP66/IP68, up to 5 bar (30 minutes)
- Temperature range: -40°C to +75°C
- Glow-wire test: 750°C for plastic
- Halogen-free
- Approvals: ATEX and IECEx

 Web code: #0026				
Description	Ex e screw connection	Ex i screw connection	Ex e screw connection	Ex e screw connection
Application	-	-	for unshielded cables	for shielded cables
Material	Plastic, black	Plastic, black-blue	Brass, nickel-plated	Brass, nickel-plated
Designation	G-ESIS-M20-S68L-PEPDS-BK	G-ESIS-M20-S68L-PEPDS-BL	G-ESIS-M20-S68N-NEPDS-S	G-ESIS-M20-S68N-NEPDS-S
Order No.	1415108	1415117	1415125	1415163



Cable glands for standard applications

The new standard cable screw connections are particularly well suited for applications in which your cables are under strong tensile force. The standard cable screw connections ensure safe support of moving, highly flexible cables and round cables.



Your advantages

- ✓ High strain relief force thanks to laminated clamping cage principle
- ✓ Optimal sealing on the housing thanks to molded sealing lip and O ring
- ✓ Vibration-resistant plastic screw connections with protection against stripping the cap nut
- ✓ International approvals

Main features

- Degree of protection: IP68, up to 5 bar (30 minutes)
- Temperature range: -40 °C to +100 °C, short-term 120 °C
- Glow-wire test: 750 °C for plastic
- Halogen-free

 Web code: #0025					
	Screw connection with bend protection		Membrane cable	Screw connection with external strain relief	
Material	Plastic, light gray	Brass, nickel-plated	Plastic, light gray	Plastic, black	Brass, nickel-plated
Temperature range	-40 °C to +100 °C, short-term 120 °C	-40 °C to +100 °C, short-term 120 °C	-40 °C to +65 °C	-40 °C to +100 °C, short-term 120 °C	-40 °C to +100 °C, short-term 120 °C
Designation	G-INB-M20-S68N-PEPDS-LG	G-INB-M20-S68N-NEPDS-S	MG-INC-M20-S67L-PTES-LG	G-INTRO-M20-S68N-PEPDS-BK	G-INESR-M20-S68N-NEPDS-S
Order No.	1415174	1415182	1415187	1415189	1415192





Cable entry system for non-assembled cables

CES multigates are metal-reinforced cable duct plates. They provide you with numerous possibilities to guide non-terminated lines through a control cabinet wall with high leakproofness.

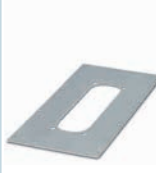


Your advantages

- ✓ Space-saving feed-through of up to 37 cables
- ✓ High degree of protection thanks to double membrane sealing
- ✓ Fast installation of non-terminated cables
- ✓ Suitable for cable sizes of 5 mm to 60 mm
- ✓ Can be mounted on the control cabinet base in combination with the module plate

Main features

- TPE-SEBS
- Inflammability class: V0, UL 94
- Flame-retardant
- Oil-resistant (black material)
- Degree of protection: IP66/IP67
- Temperature range: -40°C to +100°C

 Web code: #0035						
Description	Membrane plate					Module plate
Cable feed-throughs	7	27	27	37	37	1 cutout for membrane plate
Color	Light gray	Light gray	Black	Light gray	Black	Silver
Designation	MC-3/7-MULTI-67-PV-LG	MC-25/27-MULTI-67-PV-LG	MC-25/27-MULTI-67-PVO-BK	MC-35/37-MULTI-67-PV-LG	MC-35/37-MULTI-67-PVO-BK	MD-INC-1-SZP-S
Order No.	1415234	1415236	1415237	1415240	1415241	1415245



Heavy-duty connectors for versatile applications

High degree of protection, quick assembly and a particularly robust design – these are the key features of the HEAVYCON series heavy-duty connector. The new STANDARD metal housings are made of particularly corrosion-resistant and conductive aluminum and are also suited for EMC applications through conductive seals.



Your advantages

- ✓ Maximum corrosion resistance due to die-cast aluminum
- ✓ Save space and time with flexible single and double locking latches
- ✓ EMC-ready by means of conductive surface and seals
- ✓ Completely compatible with the industry standard through standard-compliant sizes
- ✓ Quick and easy installation and maintenance

Main features

- Size: B6 - B24
- Corrosion-resistant die-cast aluminum
- Conductive surfaces
- Seals: NBR, conductive
- Degree of protection: IP66/NEMA 4X
- Temperature range: -40°C to +125°C
- Locking with double and single locking latches

 Web code: #0027						
Description	Sleeve housing	Panel mounting base	Coupling housing	Box mounting base	Cable gland	Connector set
Size	B16	B16	B16	B16	-	B16
Thread	M25	-	M25	M25	M25	M25
Designation	HC-STA-B16-HLFD-1TTM25-EL-AL	HC-STA-B16-BWD-ELC-AL	HC-STA-B16-CHWD-1TTM25-ELC-AL	HC-STA-B16-SLWD-2SSM25-ELC-AL	G-INS-M25-M68N-NNES-S	HC-STA-B16PT-BWSC-LT-M25-ELCAL
Order No.	1412721	1411327	1412641	1412855	1411165	1416348



Heavy-duty connectors for the most heavy-duty requirements

HEAVYCON ADVANCE heavy-duty connectors are uncompromisingly robust and sealed to degree of protection IP69K. They are manufactured from particularly corrosion-resistant die-cast aluminum. By using conductive seals, the housings are also well suited for EMC applications.



Your advantages

- ✓ Ideal for challenging environmental requirements in aggressive environments
- ✓ Save costs by direct mounting without panel mounting base
- ✓ EMC-ready by means of conductive surface and seals
- ✓ Compatible with standard panel cutouts

Main features

- Size: B6 - B24
- Corrosion-resistant die-cast aluminum
- Conductive surfaces
- Seals: NBR, conductive
- Degree of protection: IP65/IP68/IP69K/ NEMA 6P
- Temperature range: -40°C to +125°C
- Stainless steel screw locking

 Web code: #0028				
Description	Sleeve housing High	Sleeve housing Low	Panel mounting flange set	Box mounting housing
Size	B16	B16	-	B16
Thread	M25	M25	-	M25
Designation	HC-ADV-B16-HHWH-1TTM25-EMC-AL	HC-ADV-B16-HLWH-1TTM25-EMC-AL	HC-B-AF-SET	HC-ADV-B16-SHFH-2STM25-EEE
Order No.	1414977	1414975	1604638	1408834





Heavy-duty connectors with two flexible cable outlets

HEAVYCON EVO heavy-duty connectors are very flexible in handling. You can use the bayonet locking to set the cable outlet direction on-site. The new TWIN housings have two flexible cable outlets on one plastic housing, offering space for a wide variety of cables.



Your advantages

- ✓ Flexible due to on-site selection of cable outlet direction and two cable outputs on only one housing
- ✓ Lower inventory costs with reduced part count
- ✓ Safe and reliable: the plastic housing meets IP66 protection and is shock-proof up to IK09
- ✓ Can be combined with all standardized aluminum housings on the market because it is compatible with the industry standard
- ✓ Safety via leading PE contact

Main features

- Size: B10 - B24
- Polyamide
- Seals: NBR
- Degree of protection: IP66/NEMA 4X
- Temperature range: -40°C to +125°C
- Interlock with double locking latch

 Web code: #0029				
Description	Sleeve housing	Thread adapter	Corrugated pipe adapter	Adapter with clamping jaws
Size	B16	-	-	-
Thread	-	M25	M25	M25
Designation	HC-EVO-B16-HHFD-2B-PL-BK	HC-B-TA-M25-PLR-BK	HC-B-GCA-M25-PLRBK	HC-B-GTRS-M25-PLR-BK
Order No.	1411496	1414244	1411973	1414652





Plastic molded M23 hybrid connectors for signal, data and power transmission

The molded version of the M23 HYBRID circular connector is ready for use immediately due to its prefabrication. In the angled version, it also offers a cable outlet direction that can be adjusted more than 240°.



Your advantages

- ✓ Transmission of signals, data, and power in only a single connector
- ✓ Compact M23 circular connector for high power
- ✓ Angled cable connectors can be configured more than 240°
- ✓ Customer-specific assemblies and cable lengths can be supplied

Main features

- Currents: up to 26 A
- Voltages: up to 630 V DC and 850 V AC
- Degree of protection: IP65/67
- Temperature range:
 - 40°C to +80°C (fixed routing),
 - 30°C to +60°C (moving routing)
- Contacts:
 - 4 x signal
 - 4 x data (can be swapped with 4 x signal)
 - 4 x power + PE

 Web code: #0038				
Description	M23 hybrid connector, straight	M23 hybrid connector, straight	M23 hybrid connector, angled	M23 hybrid connector, angled
Locking type	SPEEDCON	SPEEDCON	SPEEDCON	SPEEDCON
First cable end	Socket	Socket	Socket	Pin
Second cable end	Open	Pin	Pin	Open
Order No. 2 m	1622224	1622244	1622250	1622233
Order No. 5 m	1622225	1622245	1622251	1622234
Order No. 10 m	1622226	1622246	1622252	1622243





Installation system with QUICKON conductor connection

QPD is an installation range with QUICKON fast connection technology suitable for industrial use. It provides you with all essential components for power distribution in machines, systems and buildings spread out over a wide area. The new compact product group for litz wire cross sections of 0.5 mm² to 1.5 mm² is particularly well suited for applications with limited installation space.



Your advantages

- ✓ Time savings of up to 80% with QUICKON fast connection technology
- ✓ Quick and easy assembly without special tools
- ✓ Flexible power distribution design thanks to fixed and plug-in QPD versions
- ✓ High level of reliability thanks to robust housing with IP69K protection and up to IK07 impact strength
- ✓ Protected electronics as the housing does not have to be opened when connecting the supply line

Main features

- QUICKON fast connection technology (IDC)
- Voltage: 690 V
- Current: 17.5 A
- Cross section: 0.5 mm² - 1.5 mm²
- Degree of protection: IP68/IP69K with IK07
- Temperature range: -40°C to +80°C

 Web code: #0030					
Description	Panel feed-through	Connectors	Cable connector	T-distributors	H-distributors
Connections	1	1	2	3	4
Designation	QPD W 2PE1,5 4-9 M20 0,5 BK	QPD P 3PE1,5 4-9 BK	QPD C 3PE1,5 2X4-9 BK	QPD T 4PE1,5 3X5-10 BK	QPD H 4PE1,5 4X9-14 BK
Order No.	1414684	1414703	1414696	1414753	1414756





M12 device connectors for power electronics up to 16 A

The M12 POWER series has been extended to include connectors with 2+PE contacts. Due to the increased current carrying capacity of 16 A and connection cross section of 1.5 mm², the connectors are suitable for use as low-voltage connectors.



Your advantages

- ✓ Compact power supply voltage connector
- ✓ For industrial infrastructure applications
- ✓ Protection against mismatching thanks to S-coding
- ✓ Pre-assembled with 0.5 m long litz wires

Main features

- Currents: up to 16 A
- Voltages: up to 630 V AC
- Front and rear mounting
- Fastening thread: M16 x 1.5
- Conductor cross section: 1.5 mm²
- 2+PE contacts

 Web code: #0036				
Description	Front mounting, pin	Front mounting, socket	Rear mounting, pin	Rear mounting, socket
Order No.	1411655	1411654	1411653	1411652
Accessories: M16 x 1.5 flat nut	1504097	1504097	-	-





M12 device connector with large, easy-to-install housing

The standard M12 device connector type has been extended to include a new, larger screw-in housing. Mounting is made easier thanks to wider wrench flats and the simplified mounting contour in the device front plate.



Your advantages

- ✓ Easy-to-install, optimized housing contour with wrench size 19
- ✓ Tightening limitation for the O-ring gasket
- ✓ High level of security and tightness when mounting
- ✓ Pre-assembled with 0.5 m long litz wires for immediate use

Main features

- 3+PE to 17 pos.
- Pin and socket versions
- Coding and pin assignments for signals, data and power
- Rear and front mounting

 Web code: #0037								
	Front mounting		Front mounting		Rear mounting		Rear mounting	
Description								
Number of positions	17		5		4		3+PE	
Coding	A-coded for signals		B-coded for signals		D-coded for data		S-coded for power	
Type of contact	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket
Order No.	1411583	1411576	1411580	1411572	1411592	1411585	1411603	1411598
Accessories: M16 x 1.5 flat nut	1504097		1504097		-		-	



M12 connector with QUICKON conductor connection

Assembled M12 connectors with QUICKON fast connection technology and 360° shielding securely transmit Ethernet, PROFINET, PROFIBUS and standard signals. You can use simple standard tools to connect the cables quickly.



Your advantages

- ✓ Time savings of up to 80% with QUICKON fast connection technology
- ✓ Suitable for railways with special plastic and shock and vibration - resistant cutting contacts
- ✓ Reliable positioning and contacting of the shield using limit stop in the splice body
- ✓ Protected thread even at high torque
- ✓ Flexible connector thanks to large conductor cross section

Main features

- QUICKON fast connection technology (IDC)
- 360° shielded housing
- SPEEDCON fast locking system
- External cable diameter: 5 mm - 10 mm
- Degree of protection: IP65/IP67
- Temperature range: -40°C to +85°C

 Web code: #0031						
Description	X-coded connector		D-coded connector		B-coded connector	A-coded connector
Number of positions	8		4		2	5
Transmission speed	10 Gbps		100 Mbps		12 Mbps	-
Conductor cross section (AWG/mm²)	26 to 22/ 0.14 to 0.34	24 to 20/ 0.25 to 0.5	26 to 20/ 0.14 to 0.5		18/ 0.75	26 to 18/ 0.14 to 0.75
Application	Ethernet	PROFINET	Ethernet	PROFINET	PROFIBUS DP	Standard signals
Plug order no.	1411043	1411044	1411066	1411068	1413931	1413991
Socket order no.	1414586	1414587	1411069	1411071	1413932	1413992

Assembled cables in PVC design

The assembled sensor/actuator conductors with PVC cables are suited for many applications, particularly machine building. The conductors are available in sizes M8 and M12 and with valve connectors. Choose between connecting conductors or variants with free conductor ends.



Your advantages

- ✓ Robust cable sheath and good isolation properties with PVC
- ✓ Very good strippability for easy installation on site
- ✓ Complete product range can be ordered from stock in quantities as low as 1
- ✓ PVC conductors available in various lengths (configurable material)

Main features

- PVC conductors
- Current: up to 4 A
- Good resistance to chemicals
- Low susceptibility to wear
- Very good resistance to oils and lubricants
- Degree of protection: IP65/IP67
- Temperature range: -20°C to +85°C

 Web code: #0033						
Description	Sensor/actuator cables					Valve connectors
Version	Assembled	Free cable end	Free cable end	Free cable end	Free cable end	Free cable end
Number of positions	3	4	4	4	8	3
Designation	SAC-3P-M 8MS/1,5-PVC/M 8FR	SAC-4P-M 8MS/1,5-PVC	SAC-4P-M12MS/ 1,5-PVC	SAC-4P- 1,5-PVC/M12FS-2L	SAC-8P-M12MR/ 1,5-PVC	SAC-3P- 1,5-PVC/A-1L-Z
Order No.	1415889	1415542	1415585	1415596	1415720	1438684

Network cabling for the railway industry

The shielded gigabit Ethernet cables are ideal for the high requirements of the railway industry due to special material selection. The X-coding makes it possible for you to transfer large amounts of data within rail vehicles, such as in the case of passenger information or entertainment systems.



Your advantages

- ✓ High transmission quality thanks to consistent shielding concept
- ✓ Fulfill the highest fire requirements for rail vehicles
- ✓ Vibration and shock resistance
- ✓ Tested on extended temperature range
- ✓ Fast wiring through M12-SPEEDCON fast locking system

Main features

- X-coding with pair shielding up to the plug area
- Transmission rate: up to 10 Gbps
- Grip: PA 6.6
- Jacket: cross-linked elastomer
- Oil and fuel-resistant
- Temperature range: -25°C to +90°C
- 8-pos. (4 pair)

 Web code: #0032					
	Assembled network cables		Network cable with free cable end		
Cable length	2 m	5 m	2 m	5 m	10 m
Designation	NBC-MSX/ 2,0-94S/ MSX SCO RAIL	NBC-MSX/ 5,0-94S/ MSX SCO RAIL	NBC-MSX/ 2,0-94S SCO RAIL	NBC-MSX/ 5,0-94S SCO RAIL	NBC-MSX/ 10,0-94S SCO RAIL
Order No.	1415595	1415598	1415599	1415600	1415601

Cabling for construction machines

Electrical installations in construction vehicles or cranes place particular requirements on tight sealing and the handling due to the ambient conditions. With the new pre-assembled and molded Deutsch connectors, we provide a quick and secure cabling solution for this segment.



Your advantages

- ✓ Deutsch connector as pin and socket contact
- ✓ Easy handling with assembled PUR cables with lengths up to 10 m
- ✓ Molding guarantees good leak-proof performance
- ✓ Suitable for outdoor use

- Main features**
- PUR cables
 - 2 to 6 pos.
 - Current: up to 8 A
 - Degree of protection: IP67
 - Temperature range: -20°C to +80°C

 Web code: #0034				
Description	Deutsch connectors			
Designation	SAC-2P-DTMS/ 0,6-PUR/DTFS	SAC-3P-DTMS/ 0,6-PUR/DTFS	SAC-4P-DTMS/ 0,6-PUR/DTFS	SAC-6P-DTMS/ 0,6-PUR/DTFS
Order No.	1414992	1415004	1415017	1415036

Direct laser labeling with TOPMARK LASER

You can use the TOPMARK LASER to implement challenging industrial marking. The system has been developed to directly label metal, plastic and films. The integration into the planning and marking software CLIP PROJECT makes the TOPMARK LASER the fastest desktop laser marker of its class.



Your advantages

- ✓ Quick and easy operation
- ✓ Automatic setting of parameters using CLIP PROJECT
- ✓ Detects the direction of the inserted UCT sheets and rotates the print image 180° automatically if needed.
- ✓ High resistance due to continuous laser marking
- ✓ Over 400 materials in the product range

- Main features**
- Ethernet: 10/100 Mbps
 - Ytterbium fiber laser system, pulsed, 1064 nm
 - Laser class 1 in accordance with EN 60825-1 classification
 - 20 W

 Web code: #0019				
Description	Laser marker	Terminal marker	Conductor marker	Device marker
Mounting	-	Snap in	Bind	Screw, rivet
Material	-	PC	Stainless steel	Stainless steel
Temperature	-	-40 °C to +120 °C	-80 °C to +400 °C	-80 °C to +400 °C
Designation	TOPMARK LASER	UCT-TM 6	LS-WMTB-V4A	LS-EMSP-V4A (75.6X54)
Order No.	0831831	0828736	0831516	0831656

RFID system for device and system marking

The Industrial Identification RFID marking system for cables, devices and systems allows you to store data to the integrated chip wirelessly and read it out again in addition to printing. The new signs and mounting options expand the system for mobile operation, for maintaining equipment and for plant engineering fire protection.



Your advantages

- ✓ Handheld devices with easy touch operation
- ✓ Comprehensive marking material with integrated RFID transponder
- ✓ HF transponder inlays in accordance with ISO 15693 and ISO 18000-3 mode 1
- ✓ UHF transponder inlays in accordance with EPC Class 1 Gen 2 and ISO 18000-6C
- ✓ Easy mounting: adhere and engage in one carrier

Main features

- Free from silicone and cadmium
- Wipe resistance in accordance with DIN EN 61010-1 (VDE 0411-1)

 Web code: #0008							
	Description	Device marker	Device marker with HF-RFID transponder	Device marker with UHF-RFID transponder	Label	Marker carriers	Media marker
Material	PA	PVC/PC	PVC/PC	PVC	PA 6.6	PVC	
Mounting	Snap in	Snap in	Snap in	Adhesive	Bind	Snap in	
Transponder type	-	HF	UHF	HF	-	-	
Designation	UC-PMP (110X38)	PMP-RFID/HF (110X38)	PMP-RFID/UHF (110X38)	WML-RFID/HF 14 (25X19)R	CARRIER-PMP (110x38)	PMT (10X38)	
Order No.	0831019	0831028	0831029	0803386	0831056	0831086	

Terminal marking for terminal blocks from other manufacturers

Benefit from the advantages of marking solutions from Phoenix Contact, which can now also be used for terminal blocks from other manufacturers. The labels of the UM2 ... 8 range are specifically tailored to the holders for the respective terminal block types and can be marked using different printing systems.



Your advantages

- ✓ Terminal marking specifically for terminal blocks from other manufacturers
- ✓ Tailor-made: label width corresponds to terminal block pitch
- ✓ Can be customized with various printing systems
- ✓ Can be labeled with BLUEMARK ... and THERMOMARK CARD ...

- Main features**
- Polycarbonate
 - Temperature range: -40°C to +120°C
 - Inflammability: V2
 - Free from silicone, halogen, and cadmium
 - Wipe resistance in accordance with DIN EN 61010-1 (VDE 0411-1)

 Web code: #0009						
Description	Marking for WAGO	Marking for Wieland	Marking for Cabur	Marking for ABB/entrelec	Marking for Legrand	Marking for Woertz
Material designation	UM2-TM (4x10)	UM3-TM (6x8)	UM5-TM (6x10)	UM6M-TM (6x12)	UM7-TM (6x10)	UM8-TM (6x9)
Material order no.	0830934	0830915	0830919	0830926	0830931	0830943
Magazine designation	TM-UM-MAG5	TM-UM-MAG6	TM-UM-MAG1	TM-UM-MAG7	TM-UM-MAG10	TM-UM-MAG9
Magazine order no.	0803328	0803329	0831200	0803330	0803334	0803332

Device marking for rotary switches

You can use the new device markers to label all Phoenix Contact rotary switches with the standard dimensions of 48 x 48 mm. The transparent covers protect the labeling from dirt and other environmental influences.

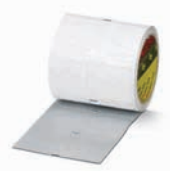


Your advantages

- ✓ Labels for device marking by the roll
- ✓ Transparent protective covers protect labeling in extreme environments
- ✓ Can be labeled with THERMOMARK ROLL, THERMOMARK X1
- ✓ Easy mounting: adhere and engage in one carrier

Main features

- Wipe resistance in accordance with DIN EN 61010-1 (VDE 0411-1)

 Web code: #0016			
Description	Label	Label	Protective cover
Material	Polyester	Polyester	PC
Color	Silver	White	Transparent
Designation	EML-RS (45,7X45,7)R SR	EML-RS (45,7X45,7)R	EMPPR (45,8X45,8)
Order No.	0803187	0803387	0803389

Conductor marking for marking after installation

Mark cables easily, even after wiring. The WMTB family of labels can be mounted quickly using a cable binder. The WMCO markers are clipped on easily.



Your advantages

- ✓ Easy subsequent marking of already connected cables
- ✓ Mounting with cable binders or for easy clipping on
- ✓ Materials for all usage ranges
- ✓ Can be marked individually with TOPMARK LASER, BLUEMARK CLED, THERMOMARK CARD

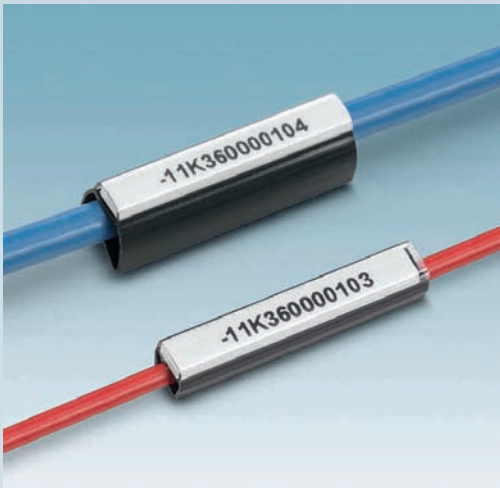
Main features

- Free from silicone, halogen, and cadmium
- Wipe resistance in accordance with DIN EN 61010-1 (VDE 0411-1)

 Web code: #0010				
Description	Conductor markers from plastic	Conductor markers from plastic	Conductor markers from plastic	Conductor markers from plastic
Printing system	THERMOMARK ROLL	BLUEMARK	TOPMARK LASER ...	TOPMARK LASER ...
Color	Red	Silver	White	Yellow
Material	PUR	PA	PCV0	PC
Temperature	-25°C to +80°C	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C
Designation	WMTB HF (55X15)R RD	UC-WMTBA (29X8) SR	UCT-WMTB (29x8)	UCT-WMCO 2,9 (12X4) YE
Order No.	0803315	0802749	0803321	0831204

Conductor marking for marking with insert labels

You can fit cables with non-detachable marking collars before wiring. In this case, marking is carried out using markable insert labels that are protected by the carrier. This also makes subsequent marking possible.



Your advantages

- ✓ Non-detachable marking using marking collars
- ✓ Subsequent marking with UC-WMT ... and UCT-WMT ... insert labels
- ✓ Protected marking using transparent collars
- ✓ Conductor marking up to 10 mm radius
- ✓ Halogen-free material for use in railway and transportation technology

Main features

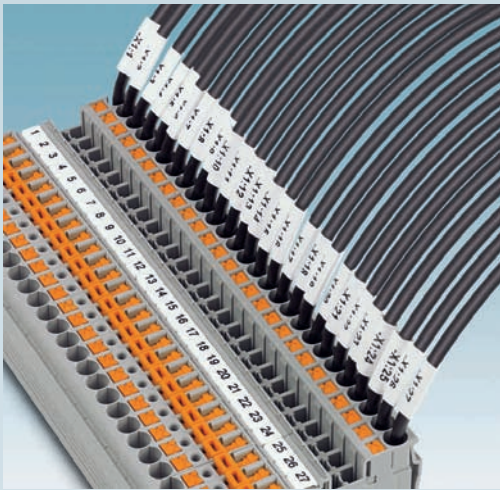
- Material: PUR
- Color: black/transparent
- Length: up to 30 mm
- Temperature range: -40°C to +100°C
- Wipe resistance in accordance with DIN EN 61010-1 (VDE 0411-1)
- Approvals: NF F 16-101/16-102 and DIN EN 45545-2
- DIN 5510-2

 Web code: #0011					
Description	Marking sleeve	Marking sleeve	Marking sleeve	Marking sleeve	Insert label
Diameter	1.2 mm - 2.5 mm	2.0 mm - 4.0 mm	4.0 mm - 7.0 mm	6.0 mm - 10.0 mm	-
Length	10 mm	15 mm	23 mm	30 mm	23 mm
Designation	PATG HF 1/10	PATG HF 2/15	PATG HF 3/23	PATG HF 4/30	UC-WMT (23X4) SR
Order No.	1014044	1014052	1014060	1014067	0802719



Conductor marking with shrink sleeve

You can mark cables and conductors in a non-detachable manner using the shrink sleeve. WMS-2 HF can be inserted in both the unshrunk and shrunk state. The shrink sleeve is provided pre-assembled and can be marked using our thermotransfer print system.



Your advantages

- ✓ Non-detachable marking of conductors
- ✓ Pre-assembled material for easy use
- ✓ Continuous carrier material for optimum print results
- ✓ Suitable for railways with specific material selection
- ✓ Marker sleeve can also be shrunk

Main features

- Material: Polyolefin
- Halogen-free
- Temperature range: -30°C to +105°C
- Roll material, pre-assembled
- Conductor diameter: up to 38.1 mm
- Shrink rate: 2:1
- Wipe resistance in accordance with DIN EN 61010-1 (VDE 0411-1)

 Web code: #0012					
	Shrink sleeve				
Description					
Diameter	1.2 mm - 2.4 mm	2.4 mm - 4.8 mm	4.8 mm - 9.5 mm	9.5 mm - 19.1 mm	19.1 mm - 38.1 mm
Designation	WMS-2 HF 2,4 (15X4)RL	WMS-2 HF 4,8 (15X9)RL	WMS-2 HF 9,5 (30x16)RL	WMS-2 HF 19,1 (60x30)RL	WMS-2 HF 38,1 (60x60)RL
Order No.	0801000	0801014	0801026	0833202	0833206



Multifunctional crimping tool for taped ferrules

CRIMPFOX PRIME is a multifunctional crimping pliers for processing conductors and ferrules. Using only one tool, you can implement various work steps: cutting, stripping, twisting and crimping. The newly integrated 4-step pressure lock also enables use in industry.



Your advantages

- ✓ Integrated pressure lock ensures consistently high-quality crimping
- ✓ Up to 30% time savings since the process steps required for assembling conductors can be carried out using only one tool
- ✓ Visualized process flows directly on the clamps simplify operation
- ✓ Robust and durable due to use of resistant plastics and annealed metals
- ✓ Compact and lightweight

- Main features**
- 4-step pressure lock
 - Working range: 0.5 mm² - 2.5 mm²
 - Ferrules in magazines available in various cross sections and in strip form in accordance with DIN 46228-4

 Web code: #0014			
Description	Multifunctional crimping pliers	Set with pliers, 3 magazines and ferrules	Ferrules
Designation	CRIMPFOX PRIME	CRIMPFOX PRIME SET	Al 1,5-8 BK S1
Order No.	1200101	1200102	1200107

Cutting and universal tools for electrical installation

The cutting and universal pliers are approved for voltages up to 1000V AC and 1500V DC. You can use CUTFOX cable cutters to achieve continuously optimal cutting results. The UNIFOX combination tools offer you combined functions for a wide variety of applications.



Your advantages

- ✓ Durable thanks to specially hardened and tempered blades
- ✓ Minimum effort thanks to optimum leverage and cutting geometry
- ✓ Low-impact and fatigue-free thanks to the ergonomic handle design

- Main features**
- High-quality tool steel
 - Two-component handles
 - VDE-compliant slide protection
 - Inductively hardened

 Web code: #0013						
Description	Diagonal cutter	Bolt cutter	Diagonal cutter	Multifunctional diagonal cutter	Combination pliers	Joint pliers
Functions	Cutting	Cutting	Cutting	Cutting, stripping and crimping	Gripping, cutting	Gripping, screwing
Length	130 mm	200 mm	180 mm	180 mm	165 mm	260 mm
Designation	CUTFOX-S VDE M	CUTFOX-SP BOLT VDE	CUTFOX-SE	CUTFOX-SE LM	UNIFOX-C VDE M	UNI-FOX-WRENCH
Order No.	1212830	1212831	1212832	1212833	1212834	1212835

Tool bags and sets for electrical installation

Compile your tool set or tool bag individually. Various bags and cases can be marked if desired and assembled with the tool you select. This is how you obtain personalized tool sets for various tasks and application areas.



Your advantages

- ✓ Sets individually tailored to application areas and tasks
- ✓ No risk of mixing up the tool bags thanks to uniquely marked signs
- ✓ Large product range for all applications in electrical installation
- ✓ Robust bags protect your tools and materials even in harsh environments
- ✓ Business card compartment snaps shut using supplied plastic rivets

Main features

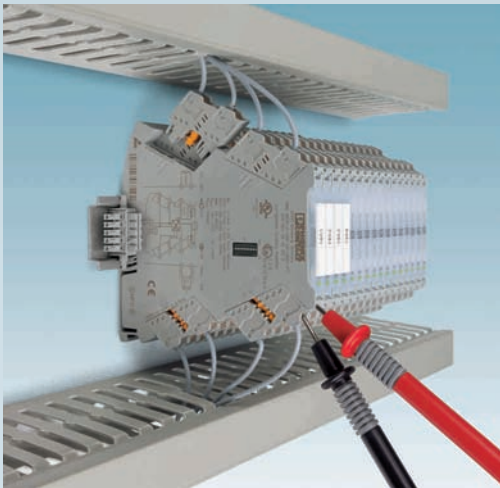
- Personalized tool bags with non-detachable marking
- Abrasion-resistant polyester

 Web code: #0015					
Description	Tool case	Tool bag	Tool belt pouch	Tool set	Tool wrap
Designation	TOOL CASE EMPTY CUS	TOOL CARRIER EMPTY CUS	TOOL BELT POUCH EMPTY CUS	TOOL KIT STANDARD EMPTY CUS	TOOL WRAP EMPTY CUS
Order No.	8191312	8191310	8191311	8191307	8191309

Highly compact signal conditioners

New functions for signal processing

The 6-mm signal conditioner with pluggable MINI Analog Pro connection technology affords you the easiest installation and startup in a confined space. With a total of seven new product types, the product family now provides you with the suitable function for all conventional applications in signal transmission.



Your advantages

- ✓ Easy installation thanks to easily accessible terminal points and plug-in connection terminal blocks
- ✓ Measure current signals during operation without disconnecting current loops and optional disconnect function.
- ✓ Set a wide variety of parameters using DIP switch configuration, software or a smartphone app
- ✓ Service-friendly with spacious marking surfaces, status and error indicator and group error messages
- ✓ Wiring with screw or push-in connection

Main features

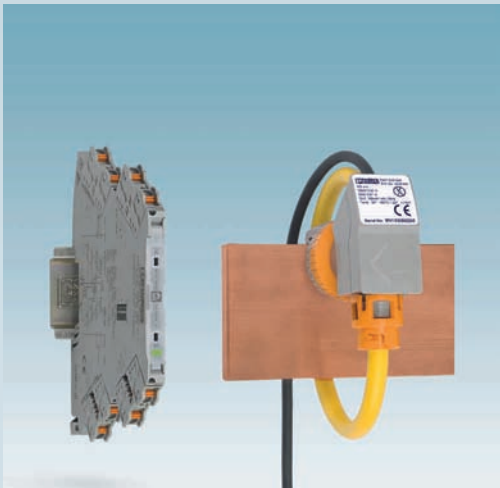
- Front operation
- State-of-the-art switching technology
- Safe electrical isolation with 3 kV test voltage
- Supply voltage range: 9.6 V DC - 30 V DC
- Temperature range: -40°C to +70°C
- Multifunctional device types

 Web code: #0083					
Description	2-way passive isolators	Analog frequency measuring transducers	Signal conditioner	Threshold value switches	Constant voltage source
Input	U, I	U, I	NAMUR	U, I	9.6 V DC - 30 V DC
Output	I	F, PWM	Transistor	PDT relay	Const. U, I
Power supply	Output loop-powered	9.6 V DC - 30 V DC	9.6 V DC - 30 V DC	9.6 V DC - 30 V DC	9.6 V DC - 30 V DC
Designation	MINI MCR-2-UI-I-OLP-PT	MINI MCR-2-UI-FRO-PT	MINI MCR-2-NAM-2RO-PT	MINI MCR-2-UI-REL-PT	MINI MCR-2-CVCS-PT
Order No.	2902063	2902032	2902005	2902035	2902065

Current transformers for retrofitting

Transform currents up to 4000 A directly into standard signals

PACT RCP current transformers for retrofitting can be quickly and easily mounted where there is not enough space for split core current transformers. You can now transform currents up to 4000 A using only one measuring system in one of the eight available analog standard signals.



Your advantages

- ✓ High system availability due to extremely fast installation without removing system parts
- ✓ Transform alternating currents up to 4000 A directly into analog standard signals using a single measuring system
- ✓ Space-saving and handy: the amperage does not affect the size and weight of the coil
- ✓ Safe installation and operation: no dangerous open circuit voltages
- ✓ Harmonics and transients detected with phase accuracy in the frequency range of 10 to 5000 Hz

Main features

- 8 current measuring ranges up to 4000 A
- 8 different standard signal output variables
- Rated insulation voltage: max. 1000 V AC (rms, CAT III)
- Coil frequency range: 10 Hz - 5000 Hz
- Coil temperature range (operation): -30°C to +80°C
- Holder for attachment to power rails
- Optional with screw or push-in connection

 Web code: #0085				
Description	Set with 300 mm coil length	Set with 450 mm coil length	Set with 600 mm coil length	Holding device for power rail
Current measuring ranges	100 A, 250 A, 400 A, 630 A, 1000 A, 1500 A, 2000 A, 4000 A			-
Measuring transducer signal output	0 mA to 20 mA, 4 mA to 20 mA, 0 mA to 10 mA, 2 mA to 10 mA, 0 V to 10 V, 2 V to 10 V, 0 V to 5 V, 1 V to 5 V			-
Designation	PACT RCP-4000A-UIRO-PT-D95	PACT RCP-4000A-UIRO-PT-D140	PACT RCP-4000A-UIRO-PT-D190	PACT RCP-CLAMP
Order No.	2906234	2906235	2906236	2904895

E-Mobility residual current monitoring for AC charging

The EV-RCM series differential residual current modules detect AC and DC residual currents based on the requirements in IEC 62752. In combination with available residual current devices, the modules increase the standard-compliant voltage protection level for charging electric vehicles.



Your advantages

- ✓ Universal residual current detection with a measuring transducer
- ✓ Use and continued operation of type A residual current circuit breaker possible
- ✓ High system availability thanks to permanent differential current monitoring
- ✓ Optional status monitoring and feedback in conjunction with the Phoenix Contact charging controllers

- Main features**
- Type B detection characteristics
 - DC 6 mA and AC 30 mA
 - Load currents: up to 32 A
 - Frequency range: up to 2 kHz
 - Measuring transducer conductor cross sections: up to 6 mm²
 - Reset function
 - Single-channel or 2-channel versions

 Web code: #0165		
Description	EV RCM module for one charging point	EV RCM module for two charging points
Designation	EV-RCM-C1-AC30-DC6	EV-RCM-C2-AC30-DC6
Channels	1 channel	2 channel
Order No.	1622450	1622451

Stand-alone data logger

Remote control and data acquisition in one device

Thanks to extremely energy-saving technology, the new PSK RTU 50 stand-alone data logger is the ideal stand-alone remote control/remote maintenance solution for decentralized automation. A wide array of interfaces and supported protocols makes data logging as easy as ever – and without a power supply.



Your advantages

- ✓ Complete solution with modem and interfaces in one device
- ✓ Flexible use with various protocols
- ✓ Quick and easy to set parameters with intuitive software
- ✓ Low-maintenance: long-term use with commercially available batteries thanks to particularly energy-saving technology
- ✓ Independent use since it can be used without power supply

Main features

- Integrated SMS/GSM/GPRS modem with antenna
- Data logger, gateway and alarm manager in one device
- Energy-saving technology, intelligent battery use
- Protocol: IEC 60870-5-101/104, Modbus
- 4 interfaces including Ethernet

 Web code: #0127	
Description	Stand-alone data logger
Designation	PSK RTU 50
Order No.	2400018

Highly compact safety relay for machine building

PSRmini is the most narrow safety relay on the market. On widths of just 6 and 12 mm, we provide you with tried-and-tested security thanks to the positively driven contacts. The needs-based structure starting at an enable path also ensures increased flexibility in your application without limiting performance.



Your advantages

- ✓ 50% space savings without limiting performance thanks to new relay technology, developed in-house
- ✓ Maximum security and availability through positively driven contacts
- ✓ Cost/benefit optimization when structuring applications starting with one enable path
- ✓ Wide usage range thanks to extensive product portfolio with compatibility to a wide variety of sensors
- ✓ Approvals for all global markets

Main features

- Overall width: 6.8 mm and 12.5 mm
- For loads up to 6 A
- Up to PL e in accordance with ISO 13849
- Up to SILCL 3 in accordance with IEC 62061
- UL and cUL
- 12.5 mm series with spring-cage and screw connection

 Web code: #0096						
Description	Safety relays in 6.8 mm overall width			Safety relays in 12.5 mm overall width		
Number of enable paths	1 NO	1 NO	2 NO	3 NO	2 NO	3 NO
Sensor circuit	Single-channel	Two-channel	Two-channel	Single-channel	Two-channel	Two-channel
Connection technology	Screw	Screw	Screw	Spring-cage	Spring-cage	Spring-cage
Designation	PSR-MS20	PSR-MS35	PSR-MS60	PSR-MC20	PSR-MC30	PSR-MC40
Order No.	2904950	2904953	2904958	2700467	2700499	2700570

Highly compact safe coupling relay for the process industry

PSRmini is the most narrow coupling relay on the market. Amplify digital signals and protect your system through electrical isolation. The positively driven contacts enable easy and quick diagnostics. This ensures short downtimes during scheduled maintenance phases.



Your advantages

- ✓ 50% space savings without limiting performance thanks to new relay technology, developed in-house
- ✓ Easy and quick proof test through positively driven contacts
- ✓ Installation up to Ex-zone 2 thanks to extensive approvals
- ✓ Quick and error-free startup using the system cabling

- Main features**
- Overall width: 6.8 mm and 12.5 mm
 - For loads up to 6 A
 - Temperature range: -40°C to +70°C
 - Up to SIL 3 in accordance with IEC 61508/61511
 - ATEX and IECEx up to Zone 2
 - Class 1, Zone 2, UL, cUL
 - GL, G3
 - 12.5 mm series with spring-cage and screw connection

 Web code: #0097						
Description	Safe coupling relay in 6.8 mm overall width			Safe coupling relay in 12.5 mm overall width		
Number of enable paths	1 NO	1 NO	1 NO	1 NO	2 NO	2 NO
SIL	3	2	3	3	3	3
Connection technology	Screw	Screw	Screw	Screw	Screw	Screw
Designation	PSR-PS20	PSR-PS21	PSR-PS40	PSR-PC20	PSR-PC40	PSR-PC50
Order No.	2700356	2700357	2700398	2700577	2700588	2904664

Multifunctional monitoring relays

Phase monitoring up to 690 V AC

Our EMD monitoring relays provide a wide spectrum of monitoring functions. The new EMD-SL-PH-690 monitors phase sequence, phase failure and undervoltage in applications up to 690 V and all of this in only 22.5 mm housing and up to +70 °C ambient temperature.



Your advantages

- ✓ Space-saving: phase-monitoring up to 690 V in only 22.5 mm housing
- ✓ Wide application spectrum thanks to large monitoring range of 180 V to 690 V
- ✓ Application even at high ambient temperatures up to +70 °C
- ✓ Worldwide use, particularly in USA and Canada thanks to UL listing
- ✓ Clear diagnostics thanks to status and error LED

Main features

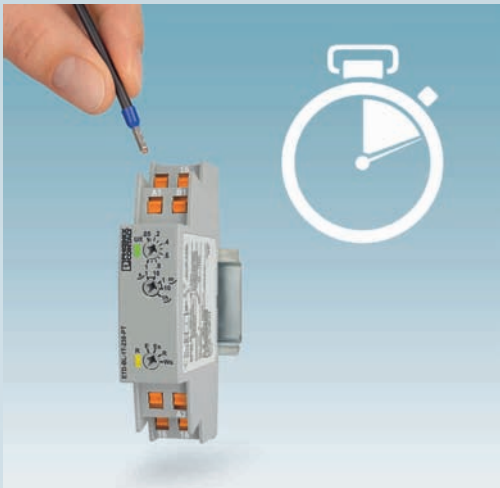
- Monitoring phase sequence, phase failure and undervoltage
- Input voltage: max. 794 V AC
- Adjustable tripping delay
- Output: 2 floating changeover contacts
- Supply from the measuring circuit

 Web code: #0084	
Description	Multifunctional monitoring relay up to 690 V
Designation	EMD-SL-PH-690
Order No	. 2905597

Compact time relays

The cost-effective alternative to a PLC

ETD time relays are the cost-effective alternative to a PLC, because they are easy to operate and can be wired quickly. The new ETD-BL that provides you with a wide variety of functions is now also in compact installation housing. Using the push-in technology, contact the modules quickly and without tools.



Your advantages

- ✓ Flexible use even in small distribution boxes due to compact installation design
- ✓ Universal application due to various functions
- ✓ Wired quickly and without tools thanks to push-in connection
- ✓ Parameters can be conveniently adjusted on the front of the housing using rotary switches
- ✓ Reasonably priced solution for numerous time control options

Main features

- Adjustable time
- Time range: 50 ms - 1 h
- Non-floating control input
- Delay functions
- Wiper functions
- Output: 1 electrically isolated changeover contact
- Unique diagnostics with status LED

 Web code: #0078		
Description	Compact time relay, multi-functional, with push-in connection	Compact time relay, multi-functional, with screw connection
Functions	E: Switch-on delay; R: Response delay with control contact; Es: Switch-on delay with control contact; Ws: Passing make contact with control contact	
Designation	ETD-BL-1T-230-PT	ETD-BL-1T-230
Order No.	2905814	2905813

Highly compact relay modules for the hazardous area

Potentially explosive areas in industry impose stringent requirements on the reliability and safety of the switching components. You can use the new versions of the highly compact PLC-INTERFACE relay modules in these areas since they have the required Ex approvals for zone 2.



Your advantages

- ✓ Can be used in potentially explosive areas due to special approvals
- ✓ Flexibility thanks to various connection technologies
- ✓ Time-saving potential distribution thanks to jumpers
- ✓ Space saving with 6.2 mm slim design
- ✓ Efficient connection to system cabling using V8 adapter

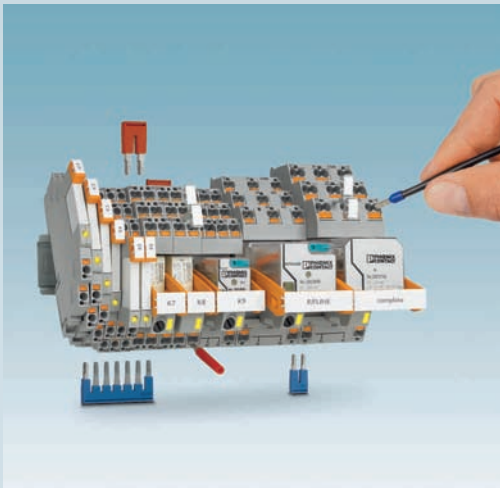
- Main features**
- Approvals: ATEX, Class 1 Division 2
 - Overall width: 6.2 mm
 - Integrated input and interference suppression circuit
 - Functional jumpers
 - RTIII sealed solid-state relay
 - Safe isolation in accordance with DIN EN 50178 between coil and contact

 Web code: #0082				
Description	Highly compact relay module			
Output	250 V/6 A	250 V/6 A	33 V/3 A	48 V/100 mA
Contacts	2 changeover contacts	1 changeover contact	Semiconductor output	Semiconductor output
Designation	PLC-RSC-24DC/21-21ATEX	PLC-RSC-24DC/21 C1D2	PLC-OSC-24DC/24DC/2 C1D2	PLC-OSC-24DC/48DC/100 C1D2
Order No.	2980461	5603154	5603260	5603261

Industrial relay system with push-in connection

Switch, multiply or amplify signals

You can implement all standard relay applications using the RIFLINE complete industrial relay system. The new versions with the 12V DC input voltage come fully pre-assembled and consist of a basic terminal block, plug-in relay and suppressor module.



Your advantages

- ✓ Easy handling with modern wiring and potential distribution concept
- ✓ Reliable system for high machine and system availability
- ✓ Easy startup thanks to pre-assembled relay modules
- ✓ Individual marking options thanks to wide range of marking accessories

- Main features**
- Relay module with push-in connection
 - Input voltage: 12V DC
 - Can be bridged using uniform jumpers (FBL)
 - Accessories from the terminal block range
 - Status LED and freewheeling diode in the plug-in module
 - Wide range of accessories from the terminal block range

 Web code: #0077		
Description	Electromechanical relay module RIF-1	
Contacts	1 changeover contact	2 changeover contacts
Designation	RIF-1-RPT-LDP-12DC/1X21	RIF-1-RPT-LDP-12DC/2X21
Order No.	2906224	2906223

Control-specific system cabling for industrial relay system with push-in connection

The new system cabling adapter enables fast and error-free connection of RIFLINE complete relay modules to the control level. The adapter can be snapped onto a row of eight RIF-1 modules without the need for any tools.



Your advantages

- ✓ Easy and fast connection of the coupling level and controller since single-conductor wiring is omitted
- ✓ Error-free connection of the signals with plug-in components
- ✓ Clearly arranged wiring in the control cabinet due to compact design
- ✓ High flexibility since the modular structure enables a channel-specific configuration of the relay output module
- ✓ In the event of a service call, the relay modules can be exchanged without disconnecting the wiring

Main features

- Connection for the system cabling
- LED status indicator for each relay module
- Power supply via the push-in connection terminal blocks
- Input voltage: 24V DC

 Web code: #0079	
Description	Adapter for RIFLINE complete RIF-1
Designation	RIF-1-V8/PT/FLK14/OUT
Order No.	2905195

Control-specific system cabling for signal conditioners and safety relays

Connect large quantities of signals from the field to your automation system. Termination carriers are compact solutions for quickly and smoothly connecting standard DIN rail devices from the MACX Analog (Ex), MINI Analog and PSR safety relay series to automation systems.



Your advantages

- ✓ Space-saving thanks to the compact design
- ✓ High system availability thanks to the robust housing and mechanically decoupled termination PCB
- ✓ Simplified documentation and startup thanks to the easy-maintenance Termination Carrier concept
- ✓ Optimum adaptation to different control systems thanks to the flexible housing concept

Main features

- Mechanically decoupled PCB
- Robust aluminum profile with integrated DIN rail
- Side parts with integrated end brackets
- Redundant system connection (KS/AKB-compatible)
- Simple or redundant supply
- Monitoring function

 Web code: #0080					
	Module carrier for safe coupling relays		Module carrier for compact signal conditioners	Module carrier for Ex i signal conditioners	
I/O cards	SDV541	SDV541	AAI141 AAI143	SAI143	AAI141 AAI143
System connector	KS50	KS50	KS40	KS40	KS40
Compatible products	PSR-ETP	PSR-FSP	MINI Analog	MACX Analog Ex	MACX Analog Ex
Designation	TC-2KS50-DO16-F&G-AR-RS	TC-2KS50-DO16-ESD-AR-RS	TC-2KS40-AI16-MPRH-CS	TC-2KS40-AI16-EX-PR-RS	TC-2KS40-AI16-EX-PR-CS
Order No.	2904112	2904113	2905257	2905203	2905677



Control-specific interface modules for easy wiring for Yokogawa ProSafe-RS

Whether analog or digital signals, the system-specific interface modules allow you to simplify your installation. The system connection guarantees you a fast and secure connection to the automation level.



Your advantages

- ✓ Easy to install thanks to plug-in components
- ✓ Easy connection of field and automation level thanks to the coordinated product range
- ✓ High availability due to redundant voltage supply and error detection
- ✓ Status signaling using LED indicator for each channel

- Main features**
- Power failure detection
 - Signal status indicator
 - Screw connection
 - 16-channel design

 Web code: #0081					
Description	Interface module for I/O card SDV144	Interface module for I/O card SDV144	Interface module for I/O card SAI143	Interface module for I/O card SDV541	Interface module for I/O card SDV541
Fuse for each signal	No	Yes	Yes	No	Yes
System connector	KS50	KS50	KS40	KS50	KS50
Designation	UM-2KS50/16DI/RS/MKDS	UM-2KS50/DI16/RS/K-MT/SO241	UM-2KS40/16AI/SI/RS/SO225	UM-2KS50/16DO/RS/MKDS	UM-2KS50/DO16/RS/K-MT/SO241
Order No.	2900173	2319618	2319841	2900175	2319595



LED control cabinet lights

Optimal lighting with quick installation

PLD control cabinet lights from Phoenix Contact provide optimal lighting for your control cabinet, including in the lower area. They are easy to install and no tools are needed! Choose a light that matches your needs from two performance classes and a particularly versatile product line.



Your advantages

- ✓ Optimum illumination of the entire control cabinet thanks to high-quality optics
- ✓ Fast, tool-free mounting and flexible use with retaining hooks/click system or magnetic fastening
- ✓ Worldwide application options and reduced ordering effort thanks to AC wide-range input
- ✓ Series connection saves time due to reduced cabling effort
- ✓ Long LED service life eliminates maintenance effort and changing lamps

Main features

- LED service life: at least 50,000 hours (L70)
- Power consumption: 2 W - 10 W (depending on light fixture)
- Socket types: F, B, E
- Temperature range (operation): -25°C to +60°C
- Degree of protection: IP20
- Mounting: Retaining hook/click system, magnetic or screw fastening

 Web code: #0086						
Description	600 class, 315 mm	600 class, 315 mm	600 class, 265 mm	400 class, 250 mm	400 class, 375 mm	400 class, 500 mm
Motion detector	Yes	Yes	Yes	No	No	No
Color temperature	4000 K	4000 K	4000 K	5000 K	5000 K	5000 K
Color rendering index	85	85	85	75	75	75
Supply voltage	AC wide range input	AC wide range input	AC wide range input	24 V DC	24 V DC	24 V DC
Order designation	PLD E 608 W 315/F	PLD E 608 W 315/B	PLD E 608 W 265	PLD E 400 W 250	PLD E 400 W 375	PLD E 400 W 500
Order No.	2702226	2702227	2702224	2702221	2702222	2702223

HMIs for HTML5 applications

Maximum flexibility thanks to HTML5 browser

The new touch panels allow you to benefit from all advantages of HTML5 technology in one robust and high-performance industrial device. The integrated web browser provides all opportunities to design interfaces for operation and monitoring individually because you are not bound to any one visualization.



Your advantages

- ✓ Flexible thanks to open web standard and free choice of web server and visualization software
- ✓ Independent with visualization of self-programmed JavaScript applications
- ✓ Secure communication thanks to SSL-encrypted data transmission
- ✓ Low maintenance costs: thanks to HTML5, no security updates required for JAVA or Flash plug-ins
- ✓ 100% suitable for industrial applications, as the browser is the only interaction interface and the device is used exclusively for operation

Main features

- Software: Debian GNU/Linux operating system, Midori browser, PDF viewer
- Display sizes: 5.7"/7"/10"/12"/15"
- Processor: ARM® Cortex®-A8, 800 MHz
- RAM: 512 MB
- Interfaces: 2 x USB, 1 x ETH 10/100 MB
- Temperature range: 0°C to +50°C

 Web code: #0119					
Description	Touch panel, 5.7"	Touch panel, 7"	Touch panel, 10.5"	Touch panel, 12"	Touch panel, 15"
Resolution	640 pixels x 480 pixels (VGA)	800 pixels x 480 pixels (WVGA)	800 pixels x 600 pixels (SVGA)	1280 pixels x 800 pixels (WXGA)	1024 pixels x 768 pixels (XGA)
Designation	WP 3057V	WP 3070W	WP 3105S	WP 3120W	WP 3150S
Order No.	2400251	2400253	2400254	2400255	2400285

HMI for Visu+ software

New processors for more visualization performance

Benefit from up to 10% faster image change and reaction time. Thanks to high-performance processors, you can use the new HMI devices for the Visu+ visualization software to design complex operation and monitoring interfaces that flow smoothly. Using detail-rich graphics, you can form your systems and processes perfectly.



Your advantages

- ✓ High-performance and versatile thanks to new processor generation and integrated Visu+ visualization software
- ✓ Flexible in connection with various drivers, for third-party systems as well
- ✓ Mobile plant access optionally available with Visu+ mobile app
- ✓ Save on costs for acoustic signal devices using an integrated buzzer (85 dB)
- ✓ Fast diagnostics due to simple IP address assignment and active connection monitoring in accordance with PROFINET-Conformance Class B

Main features

- Processor: ARM® Cortex® - A8, 800 MHz
- Software: Windows Embedded Compact 7, VISU+ RT, AX OPC Server
- Memory: 1 GB Flash, RAM: 512 MB
- Display sizes: 5.7"/7"/10"/12"/15"
- Interfaces: 2 x USB, 1 x ETH 10/100 MB
- Temperature range: 0°C to +50°C

 Web code: #0120						
	Touch panel, 5.7"		Touch panel, 7"	Touch panel, 10.5"	Touch panel, 12"	Touch panel, 15"
Description	Touch panel, 5.7"		Touch panel, 7"	Touch panel, 10.5"	Touch panel, 12"	Touch panel, 15"
Designation	TP 3057Q	TP 3057V	TP 3070W	TP 3105S	TP 3120W	TP 3150S
Order No.	2400452	2400453	2400454	2400455	2400457	2400458

Panel PCs

Now with projective-capacitive display and multitouch

The new generation of Valueline panel PCs combines state-of-the-art technology and robust industrial design into one high-performance operation and monitoring device. Various display sizes and numerous configuration options make the new Valueline panel PC the tailor-made IPC solution.



Your advantages

- ✓ Multi-touch-capable with projective-capacitive touchscreen technology
- ✓ Particularly robust thanks to the fanless design which is suitable for industrial applications
- ✓ Maintenance-friendly with access to all important components
- ✓ Can be extended via PCI-/PCIe slot
- ✓ High data security thanks to 2 mass storage devices and RAID support

Main features

- Display sizes: 15.6"/18.5"/21.5" widescreen
- Processors: Intel® Core™ i5-4300U, 4th Generation (Haswell) or Intel® Celeron® N2930, 3rd generation (Baytrail)
- 2 x SATA HDD/SSD (RAID 0.1)
- 2 x Display Port video output
- 4 x USB 2.0 or 2 x USB 2.0 and 2 x USB 3.0
- PCI-/PCIe extension

 Web code: #0123		
	Description	Panel PC with Intel® Celeron® N2930
Designation	VL2 PPC 2000	VL2 PPC 7000
Order No.	2400334	2400346

Panel PCs for shipbuilding

Robust technology for operation and monitoring

The new maritime panel PCs are the high-performance solution for sophisticated operation and monitoring tasks on ships or offshore systems. The devices provide all important maritime approvals and can be configured for the various applications, ranging from the bridge to under the deck.



Your advantages

- ✓ Tested quality: certified in accordance with GL, LR, BV, DNV, ABS and EN 60945
- ✓ Ideal for use on the bridge since it can be dimmed up to 100%
- ✓ Save on costs for acoustic signal devices using an integrated buzzer (85 dB)
- ✓ Suitable for many offshore areas through individual configuration options
- ✓ Can also be read in direct sunlight thanks to GFG touch technology with anti-reflex coating

Main features

- Display sizes: 7"/12"/15", resistive touch technology (polyester or GFG)
- Processor: Intel® Atom™ E 680T 1.6 GHz
- RAM: 2 GB DDR2
- Windows Embedded Standard 7 (optional)
- Floating output for external sensors
- Internal buzzer
- Keys for backlighting

 Web code: #0125						
Description	Maritime panel PC, 7"	Maritime panel PC, 12"	Maritime panel PC, 15"	Maritime panel PC, 7"	Maritime panel PC, 12.1"	Maritime panel PC, 15"
Touchscreen	Resistive			Resistive (GFG)		
Designation	EL PPC7 1000/M	EL PPC12 1000/M	EL PPC15 1000/M	EL PPC7G 1000/M	EL PPC12G 1000/M	EL PPC15G 1000/M
Order No.	2400068	2400069	2400070	2400282	2400283	2400284

Box and panel PCs

Now even more powerful

After a processor upgrade to Intel® Core™ i3, the tried-and-tested box and panel PCs of the Valueline family now boost twice the performance. Benefit from this computing power and use these IPCs, which can be configured in a wide variety of ways, for visualizing, measuring, regulating and controlling directly on-site in the system.



Your advantages

- ✓ High system availability thanks to the fanless design which is suitable for industrial applications
- ✓ Easy integration in existing systems due to compatibility with the Valueline IPC family
- ✓ Maintenance-friendly design thanks to easy access to all important components
- ✓ Can be extended thanks to optional PCI slots
- ✓ Simpler startup with optional front USB

Main features

- Display sizes: 12" - 24", 4:3 or 16:9
- Processor: Intel® Core™ i3 (4010U), 4th generation (Haswell)
- RAM: up to 16 GB DDR3
- Supports SSD, HDD and CFAST
- Windows 7 64-bit
- 2 x configurable PCI slots
- 1 x configurable COM (RS-232/422/485)

 Web code: #0133		
Description	Box PC	Panel PC
Designation	VL BPC 3000	VL PPC 3000
Order No.	2400183	2400184

Box PCs

More performance and configuration options

VL2 Box PCs represent a new family of industry PCs: fanless box PCs with state-of-the-art processors in various performance classes. Configure the box PCs using numerous options such as RAID. The service-friendly design also enables easy handling in operation.



Your advantages

- ✓ High system availability thanks to the fanless design which is suitable for industrial applications
- ✓ Maintenance-friendly design through easy access to all important components
- ✓ Can be extended via PCI-/PCIe slot
- ✓ High data security thanks to 2 mass storage devices and RAID support
- ✓ Also supports large displays up to 4K and multi-display indicator via interface

Main features

- Processors: Intel® Core™ i5-4300U, 4th Generation (Haswell) or Intel® Celeron® N2930, 3rd generation (Baytrail)
- 2 x SATA HDD/SSD (RAID 0.1)
- 2 x DisplayPort video output
- 4 x USB 2.0 or 2 x USB 2.0 and 2 x USB 3.0
- PCI/PCIe extension
- Book or wall mounting

 Web code: #0124		
	Description	Box PC with Intel® Celeron® N2930
Designation	VL2 BPC 2000	VL2 BPC 7000
Order No.	2400332	2400333

Rackmount PCs

High-performance 19" industrial PCs for data centers

Data acquisition and management, measurement, visualization or processing large volumes in industrial image processing: the new, high-performance Rackmount PCs provide the suitable solution for sophisticated applications and various tasks in your industry in standard 19" format.



Your advantages

- ✓ Tailored to the 19" rack format with 2 RU (rack unit) or 4 RU
- ✓ Suitable for every application thanks to scalable, powerful, and energy-efficient 4th Generation Intel® processors
- ✓ Can be extended via PCI/PCIe slots
- ✓ High system availability and data security thanks to RAID support (0/1/5/10)
- ✓ Easy maintenance thanks to two or three hot-swappable drives

Main features

- Intel® Core™ i3-4330T or i7-4770S
- Up to 16 GB DDR3 (i7)
- Up to 4 TB mass storage
- 1 PCIe x 16, 3 PCIe x 1, 8 PCI (4 RU)
- 1 PCIe x 16, 1 PCIe x 8, 3 PCI (2 RU)
- Windows 7 64-bit
- Lockable HDD
- Easy air filter access

 Web code: #0129		
	Rackmount PC, 4 RU	Rackmount PC, 2 RU
Description		
Processor	Intel® Core™ i7-4770S	Intel® Core™ i3-4330T
RAM	Up to 16 GB DDR3 (i7)	Up to 8 GB DDR3 (i3)
RAID	0, 1, 5 and 10 support	0, 1 and 5 support
Designation	BL RACKMOUNT 4U	BL RACKMOUNT 2U
Order No.	2400064	2400063

Software for data management systems

The central node for data acquisition

Detect, archive and analyze all of your plant's operating and process data with ACRON data management software. Based on this data, create individual tables, graphics and statistics quickly and easily. ACRON is the ideal software solution for Water and Wastewater Treatment or the solar industry, for example.



Your advantages

- ✓ Individual long-term archiving thanks to powerful database technology
- ✓ Tailored reporting thanks to flexible data analysis and evaluation
- ✓ Legal certainty thanks to permanent reports
- ✓ Time savings thanks to fast configuration and convenient logging

Main features

- All-in-one solution: evaluation and analysis of historic data
- Maximum security in data acquisition (three-level cache) and storage (redundancy)
- Tamper-proof, plant-wide, system-wide
- Native connections to a variety of control systems

 Web code: #0126				
	Description	Data management software	Data management software (update)	Data management software (upgrade kit)
	Designation	ACRON	ACRON UPD	ACRON EXPANSION
	Order No.	2400115	2400116	2400117



Software for visualization

Flexible operation and monitoring

Atvise is the new visualization software based on open web standards that you can use to implement complex operating and monitoring tasks. Since the software exclusively uses web technology without any plug-ins, you can use your visualization on any device. You only need a web browser.



Your advantages

- ✓ Location and device-dependent visualization via a standard browser without additional client or plug-in installation
- ✓ Flexible in design with scalable vector graphics (SVG), any resolution without loss of quality
- ✓ Easy process data connection through tried-and-tested standards such as OPC Classic and OPC UA
- ✓ Quick creation of even complex visualizations (SCADA) since no web or programming knowledge is necessary

Main features

- Comprehensive object libraries available for many industries and applications
- Script editor for JavaScript programming
- Drag-and-drop operation
- Can be used on controllers (webMI) or computers (SCADA)

i Web code: #0128



Description	Visualization software	Visualization software (update)	Visualization software (upgrade kit)
Designation	ATVISE	ATVISE UPD	ATVISE EXPANSION
Order No.	2400478	2400479	2400480

Software for alarm generation

Always informed of all system statuses

The AIP software is a modular, expandable client/server application platform you can use to compile and forward events of various data systems. AIP is the suitable software if you want to implement a continuous alarming system, for example, for wind and solar energy and for infrastructure applications.



Your advantages

- ✓ Always notified everywhere using location-independent process monitoring
- ✓ Reduce costs by using standby personnel only as needed
- ✓ System availability increases by quick and efficient intervention
- ✓ Safe system operation since access rights are only for authenticated users
- ✓ Clearly understood acoustic signal through high-quality text-to-speech engine integrated into the system

Main features

- Interfaces: OPC Classic, OPC UA
- Native connection to the following control systems: WinCC/PCS7, iFIX, InTouch
- Analysis: historic event lists, Top 10 alarms, alarm frequencies and detailed logging information
- Transmission media: SMS, voice output, e-mail, fax, VdS 2465 and reports

 Web code: #0130			
	Description	Alarm generation software	Alarm generation software (update)
Designation	AIP	AIP UPD	AIP EXPANSION
Order No.	2400485	2400486	2400487

Hybrid motor starter with new options for fieldbus connection

Switch and reverse motors quickly and reliably with compact hybrid motor starters. They can now also be integrated into common bus systems using an interface system gateway (IFS) or the integrated SmartWireDT™ interface. Here, the process data is transmitted to a control system.



Your advantages

- ✓ Simplified control wiring via DIN rail connector
- ✓ Easy integration of your motor control application into conventional bus systems using IFS gateways
- ✓ High system availability by optimizing service intervals based on process data
- ✓ Low-wear switching using hybrid technology
- ✓ Compact design thanks to space-saving housing

Main features

- Connection via DIN rail connector
- Transmission of process data to the control system
- Emergency stop in accordance with PL e via enable inputs
- Integrated motor protection with preliminary warning
- Integrated operating cycle counters
- Input voltage: 24 V

 Web code: #0076			
Description	Hybrid motor starter with IFS interface (example)	IFS-PROFIBUS gateway (example)	Hybrid motor starter with SmartWireDT™ interface (example)
Function	Starting and reversing 3-phase motors	for incorporating IFS devices into a bus system	Starting and reversing 3-phase motors
Designation	ELR H5-IES-PT/500AC-9-IFS	EM-PB-GATEWAY-IFS	ELR H5-I-PT-SWD/500AC-9
Order No.	2905140	2297620	2905075

PROFINET Starter kit

For a fast introduction to automation

The new PROFINET starter kit is the cost-efficient introduction for anyone curious to learn the advantages of PROFINET technology. An automation station made up of an Axiocontrol PLC and an Axioline F-I/O system is used to integrate the most modern and robust components here, allowing you to build your own testing and learning application.



Your advantages

- ✓ Quick entry into automation with PROFINET thanks to step-by-step instructions for the test setup
- ✓ Design with state-of-the art automation station based on Axiocontrol and Axioline components
- ✓ Get started right away with a set of all required products

Main features

- Starter kit consists of :
 - AXC 1050 controller
 - AXL F BK PN bus coupler
 - AXL DI 32/1 and AXL F DO16/3 2F I/O terminals
- PC WORX software with quick start guide and application example
- Power supply, USB and network cable

 Web code: #0122	
Description	PROFINET STARTERKIT
Designation	AXC 1050 PN STARTERKIT
Order No.	2400361

E-Mobility charging controllers for simple AC charging stations

The new E-Mobility charging controllers of the EV-CC-AC1-M3 series are designed specifically for use in private homes. The controllers cover all essential functions for standard-compliant AC charging in accordance with IEC 61851-1 and for charging station operation.



Your advantages

- ✓ Reduced wiring effort thanks to high functional integration
- ✓ Flexible use as a PCB or DIN rail device
- ✓ Reliable release of the infrastructure plug in case of mains failure
- ✓ Versions available for charging stations with a vehicle connector (case C) or an infrastructure socket outlet (case B)

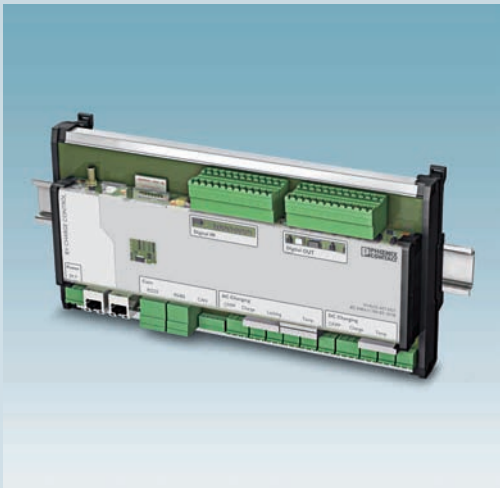
Main features

- Mode 3 charging in accordance with IEC 61851-1
- Supply voltage: 100 V AC to 240 V AC
- 12 V connector locking mechanism
- Configurable charging current: 16 A, 20 A, 32 A, 63 A
- 4 digital inputs and outputs
- RS-485 communication interface

 Web code: #0134				
Description	Charging controller for case B and C	Charging controller for case B and C	Charging controller for case C	Charging controller for case C
Designation	EV-CC-AC1-M3-CBC-SER-HS	EV-CC-AC1-M3-CBC-SER-PCB	EV-CC-AC1-M3-CC-SER-HS	EV-CC-AC1-M3-CC-SER-PCB
Type	DIN rail mounting	Printed-circuit board	DIN rail mounting	Printed-circuit board
Order No.	1622452	1622453	1622459	1622460

Programmable E-Mobility charging controller for complex AC/DC charging stations

EV Charge Control Professional is the control solution for your sophisticated charging infrastructure and supports AC or fast DC charging. You can integrate all the necessary functions in the charging station thanks to the versatile communication interfaces and flexible programming capability.

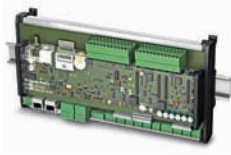


Your advantages

- ✓ Communication from the vehicle and charging station to the systems of energy suppliers and infrastructure and network operators
- ✓ Open Charge Point Protocol (OCPP) for efficient authorization and billing processes
- ✓ Powerline communication between vehicle and charging station in accordance with ISO/IEC 15118
- ✓ DC fast charging in line with the Combined Charging System (CCS) in accordance with DIN SPEC 70121

Main features

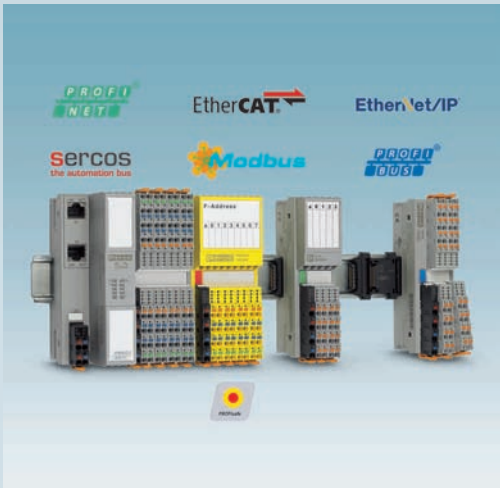
- Interfaces:
- Ethernet and mobile communication
 - Serial communication
 - Digital I/Os
 - Temperature monitoring
 - AC and DC charging points
 - Programming in PCWORX

 Web code: #0163	
Description	Programmable charging controller
Designation	EV - PLCC- AC1- DC1 - M3 - CBC - SER
Order No.	On request

I/O system for the control cabinet (IP20)

Axioline F – even more variety

Axioline F is fast as regards response times and installation, robust in terms of its design and mechanics, and at the same time very easy to operate. Open to all Ethernet-based communication protocols and available in various designs, Axioline F offers maximum flexibility.



Your advantages

- ✓ High measurement accuracy, lower cycle times, and better control quality thanks to extremely short response times
- ✓ Particularly robust modules enable reliable use even under the most adverse conditions
- ✓ Easy mounting and startup thanks to push-in connection, rotary coding switch and USB port
- ✓ Consistent solutions for automation tasks with corresponding Axiocontrol controller

- Main features**
- Temperature range (operation): -25°C to +60°C
 - Relative humidity (operation): 5% - 95%
 - Vibration: 5g in accordance with EN 60068-2-6
 - Shock: 30g in accordance with EN 60068-2-27
 - Continuous shock: 10g in accordance with EN 60068-2-27
 - Noise emission: Class B in accordance with EN 61000-6-3
 - Noise immunity: 8 kV air discharge in acc. with EN 61000-4
 - Permitted range: 19.2V DC - 30.0V DC

 Web code: #0089						
Description	I/O module					
I/O functionality	8 temperature inputs, RTD	64 digital outputs	16 digital outputs	2 analog inputs, 2 analog outputs	32 digital outputs	16 digital inputs, 16 digital outputs
Connection technology	Push-in, 2, 3, 4-wire	Push-in, 1-wire	Push-in, 1-wire with FLK connection	Push-in, 2-wire	Push-in, 1-wire	Push-in, 1-wire
Order designation	AXL F RTD8 S 1F	AXL F DO64/1 2F	AXL F DO16 FLK 1H	AXL F AI2 AO2 1H	AXL F DI32/1 2H	AXL F DI16/1 DO16/1 2H
Order No.	2702120	2702053	2701813	2702072	2702052	2702106

I/O system for the control cabinet (IP20)

Axioline F – even more robust

The fast, particularly robust I/O system with high signal density, Axioline F, is now also available with an expanded temperature range and varnished modules, providing you with an even wider field of use.



Your advantages

- ✓ Far-reaching potential applications thanks to comprehensive temperature range
- ✓ The varnished modules withstand even the toughest ambient conditions
- ✓ High noise immunity even in electromagnetically strongly contaminated environments
- ✓ Reliable use even in applications with large mechanical loads
- ✓ All important approvals for marine automation

Main features

- Temperature range (operation): -40°C to +70°C
- Relative humidity (operation): 5% - 95%
- Vibration: 5g in accordance with EN 60068-2-6
- Shock: 30g in accordance with EN 60068-2-27
- Continuous shock: 10g in acc. with EN 60068-2-27
- Noise emission: Class B in acc. with EN 61000-6-3
- Noise immunity: 8 kV air discharge in acc. with EN 61000-4
- Maximum altitude: 3000m above sea level without derating

 Web code: #0088						
Description	Bus coupler for Ethernet	I/O module				
I/O functionality	-	2 counter inputs, 2 incremental encoder inputs	8 analog outputs, current / voltage	16 digital inputs	8 digital inputs, 8 digital outputs	4 analog inputs, current
Connection technology	Push-in,	Push-in,	Push-in, 2-wire	Push-in, 4-wire	Push-in, 1-wire	Push-in, 2, 3, 4-wire
Order designation	AXL F BK ETH XC	AXL F CNT2 INC2 XC 1F	AXL FAO8 XC 1F	AXL F DI16/4 XC 2F	AXL F DI8/1 DO8/1 XC 1H	AXL FAI4 I XC 1H
Order No.	2701949	2701239	2701237	2701224	2702017	2702007



I/O system for the control cabinet (IP20) Axioline F – now available for IEC 61850

The particularly robust I/O system Axioline F is the perfect solution for applications in the energy sector. With the new bus coupler and the new I/O modules, the convenient handling of Axioline F is now also available for IEC 61850.



Your advantages

- ✓ Time savings during commissioning without specific programming knowledge thanks to easy parameter configuration
- ✓ Flexible and easy online access through web interface
- ✓ Customized I/O number and easy retrofitting saves on costs and increases flexibility
- ✓ Extra-low and low voltage modules can be freely combined without insulation plates, allowing for more compact I/O stations
- ✓ Maximum flexibility and simplified project planning, startup and maintenance through interoperability

Main features

- Communication in accordance with IEC 61850-5, MMS and GOOSE
- Noise immunity of the I/O terminals in accordance with IEC 61850-3
- Temperature range (operation): -25°C to +60°C
- Permissible humidity (operation): 5% - 95%
- Vibration: 5g in accordance with EN 60068-2-6
- Shock: 30g in accordance with EN 60068-2-27
- Continuous shock: 10g in accordance with EN 60068-2-27

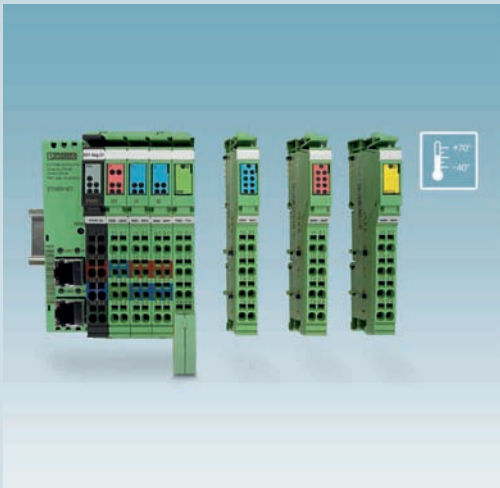
 Web code: #0087			
Description	Bus coupler for IEC 61850	I/O module, 110 to 220V DC	I/O module, 230V AC/220V DC
I/O functionality	-	8 digital inputs	4 relay outputs
Standard	IEC 61850-5	IEC 61850-3	IEC 61850-3
Impulse withstand voltage	1 kV	5 kV	5 kV
Nominal voltage	24V DC	110V DC/220V DC	110V DC/220V DC, 230V AC
Order designation	AXL F BK SAS	AXL F DI8/2 110/220DC 1F	AXL F DOR4/2 AC/220DC 1F
Order No.	2701457	2700684	2700608



I/O system for the control cabinet (IP20)

Inline – with extended temperature range

Inline is the versatile all-rounder in a design with fine granularity for the control cabinet. You can design your automation functions in a unique way from a wide range of I/O modules and function terminals for all popular fieldbus systems and Ethernet networks – now for harsh environments as well.



Your advantages

- ✓ Maximum flexibility thanks to a large selection of I/O modules, function terminals, bus couplers, and controllers
- ✓ The slim overall width and tailor-made number of channels in the modules save space in the control cabinet
- ✓ Far-reaching potential applications thanks to comprehensive temperature range

- Main features**
- Extended temperature range: -40°C to +70°C
 - Relative humidity (operation): 10% - 95%
 - Vibration: 5g in accordance with EN 60068-2-6
 - Shock: 25g in accordance with EN 60068-2-27
 - Noise emission: Class A in accordance with EN 61000-6-4
 - Noise immunity: 8 kV air discharge in acc. with EN 61000-4
 - Maximum altitude: 3000m above sea level without derating

 Web code: #0090					
Description	Bus coupler for PROFIBUS	Bus coupler for EtherNet/IP	Bus coupler for CANopen	I/O module	
I/O functionality	8 digital inputs, 4 digital outputs	8 digital inputs, 4 digital outputs	-	1 counter input, 1 control input, 1 digital output	2 digital outputs 2 A
Connection technology	Spring-cage, 2, 3-wire	Spring-cage, 2, 3-wire	Spring-cage,	Spring-cage, 2, 3-wire	Spring-cage, 2, 3, 4-wire
Order designation	IL PB BK DI8 DO4/EF-XC-PAC	IL EIP BK DI8 DO4 2TX-XC-PAC	IL CAN BK-TC-XC-PAC	IB IL CNT-XC-PAC	IB IL 24 DO 2-2A-XC-PAC
Order No.	2702132	2702131	2702130	2702134	2702133

Managed Switches in accordance with IEC 61850 for the automation of energy systems

IEC 61850 places special requirements on network components. High ambient conditions apply for use in the energy area, which are specified in IEC 61850-3. The new Managed Switches have FO ports with ST connection and complete the Industrial Ethernet portfolio in accordance with IEC 61850.



Your advantages

- ✓ Can be used under the harshest electromagnetic, electrostatic, and climatic ambient conditions
- ✓ Reliable, error-free data transmission over long distances thanks to fiber optic technology
- ✓ Redundant, replaceable power supply and special operating voltages
- ✓ Fast redundancy mechanisms for high availability
- ✓ High port density in one rack unit for low space requirements in the control cabinet

- Main features**
- IEC 61850-3, IEEE 1613
 - Robust metal housing
 - Fanless design
 - Wide power supply range
 - Extended temperature range: -40°C to +70°C
 - Ring redundancy with reconfiguration time of < 15 ms with 200 switches in the ring
 - 4 Gigabit combo ports

 Web code: #0099		
Description	Managed Switches in 19" format	
Total number of ports	28 (4 Gigabit combo ports, 8 RJ45 ports, 16 FO ports)	
100 Mbps FO ports	16 multimode ports with ST connection	16 single mode ports with ST connection
Accessories	Modular power supply: 2891075 (48V DC) 2891076 (110V, 220V DC, AC)	
Designation	FL SWITCH 4808E-16FX ST-4GC	FL SWITCH 4808E-16FX SM ST-4GC
Order No.	2891085	2891086

Unmanaged switches for efficient Ethernet networks

Unmanaged switches with standard functions can be used for quick and cost-effective Ethernet network expansion all the way to the field level. Special variants for PROFINET and additional gigabit variants are being added to the portfolio.



Your advantages

- ✓ Auto negotiation and auto crossing for easy installation
- ✓ Gigabit variants for high data throughput
- ✓ PROFINET variants with PTCP filter for reliable communication in PROFINET networks
- ✓ Variants with an expanded temperature range for use under extreme environmental conditions
- ✓ Optional mechanical cable and port locking for protection from access and tampering

- Main features**
- Auto negotiation
 - Auto crossing
 - QoS-prioritized messages
 - Local diagnostics indicators with LEDs
 - Cable locking (optional)
 - Port locking (optional)

 Web code: #0100					
Description	Unmanaged switches for PROFINET networks			Unmanaged switches with gigabit ports	
Ports	5 x RJ45	8 x RJ45	5 x RJ45	5 x RJ45	5 x RJ45
Transmission speed	10/100 Mbps			10/100/1000 Mbps	
Temperature range	0°C to +60°C			0°C to +60°C	-40°C to +75°C
Special features	PTCP filter			-	-
Order No.	2891151	2891018	2891444	2891390	2891391

Security routers for secure industrial networks

The new security routers provide five unmanaged ports or four managed ports and one DMZ port for mutually safeguarding multiple networks. Choose between variants with a simple 2-click firewall or intelligent firewall with a full function scope in easy configuration.



Your advantages

- ✓ Security router and switch in one device
- ✓ DMZ port for the isolation of individual services (RS4004)
- ✓ Exchangeable configuration memory for simple device exchange and for backing up the configuration
- ✓ Option for easy configuration using a central management tool (accessories)
- ✓ Maximum data throughput thanks to high-performance electronics

- Main features**
- CIFS Integrity Monitoring (optional with RS4004)
 - OPC Inspector (optional with RS4004)
 - Firewall, router or VPN redundancy (optional with RS4004)
 - Managed or Unmanaged Switch
 - Router with NAT and 1:1-NAT
 - Metal housing

 Web code: #0101			
Description	Security router with switch function		
Switch ports	5 x RJ45 unmanaged	4 x RJ45 managed, 1 x DMZ	4 x RJ45 managed, 1 x DMZ
Number of VPNs	2 (fixed)	0 (up to 250)	10 (up to 250)
Firewall	2-click firewall	Stateful inspection	Stateful inspection
Designation	FL MGUARD RS2005 TX/TX VPN	FL MGUARD RS4004 TX/DTX	FL MGUARD RS4004 TX/DTX VPN
Order No.	2701875	2701876	2701877

Media converter for Ethernet networks with basic requirements

The class 1000 media converters are designed for applications with basic requirements. They provide an easy and cost-effective entry for converting to FO technology in industrial Ethernet networks.



Your advantages

- ✓ Maximum immunity to interference and electrical isolation thanks to optical transmission
- ✓ Maximum transmission distances with an extremely high data rate
- ✓ Permanent link monitoring using link fault pass through
- ✓ Auto negotiation and auto MDI/MDIX for easy startup
- ✓ Transmission ranges up to 9.6 km by using multi-mode fiberglass

Main features

- Selection between SC-Duplex and B-FOC (ST) with 50/125 µm multi-mode fiberglass
- Transmission range: 9.6 km
- Store-and-forward with auto negotiation
- Input voltage range: 12 V DC to 48 V DC
- Compact design in robust metal housing
- LED indicator for link and data activity

 Web code: #0098			
	Class 1000 media converters		
Description			
Connectors	SC-Duplex		B-FOC (ST)
Designation	FL MC 1000 SC		FL MC 1000 ST
Order No.	2891320		2891321



Converter and repeater for copper transmission with RS232, RS485 and RS422

Converters enable you to convert various interfaces to other standards in a protocol-transparent way. This is how you can connect various systems or use tried-and-tested peripherals. The electrical isolation protects your components from hazardous compensating currents.



Your advantages

- ✓ Adapt and connect interfaces using converters
- ✓ Increased range and speed thanks to network segmentation
- ✓ High-quality electrical isolation between individual segments
- ✓ Use of repeaters means you can have any network topology

Main features

- Input voltage range: 11 V AC/DC to 30 V AC/DC
- Extended temperature range: -40°C to +70°C
- Narrow housing: 22.5 mm
- Integrated surge protection with transient discharge to the DIN rail
- LED display for transmit and receive data

 Web code: #0092			
Description	Converter RS-232 to RS-485/RS-422	RS-485 repeater	LON-RS-485 repeater
First interface	RS-232	RS-485	RS-485
Second interface	RS-485/RS-422	RS-485	RS-485
Range	1200 m	1200 m	Depends on bus system, transmission speed and cable type
Maximum data rate	115.2 kbps	1,500 kbps	2,000 kbps
Designation	PSM-ME-RS232/RS485-P	PSM-ME-RS485/RS485-P	PSM-ME-REP LON485-P
Order No.	2744416	2744429	2708041



Protocol converters for remote control technology

Communicate in a cost-effective manner

Phoenix Contact remote control technology allows you to monitor local stations, for example in water management or energy supply. The protocol converters of the Resygate family are new here. Resygate decodes many common communication protocols in state-of-the-art, standard remote control protocols, substantially saving on costs for interfaces in the control system.



Your advantages

- ✓ Save costs since fewer interfaces are required in the control system
- ✓ Configure local stations easily using pre-installed software with automatic plausibility check
- ✓ Use IP address ranges more effectively by forming sub-networks
- ✓ Fail-safe thanks to four-fold software redundancy (one converter, four different control systems)
- ✓ Maximum performance through Intel® Atom™ and Intel® Celeron processors and generously sized RAM memory

Main features

- Converts the protocols IEC 60870-5-104, IEC 60870-5-101, Modbus/RTU, Modbus/TCP, to IEC 60870-5-104 or IEC 60870-5-101
- Connection of stations via GSM or UMTS
- Connect up to 18 serial terminal devices (depending on protocol)
- Up to 3 serial interfaces

 Web code: #0121		
Description	Protocol converter for 500 process variables	Protocol converter for 4000 process variables
Processor	Intel® Atom™	Intel® Core™2 Duo
Serial interface	3	1
Designation	RESYGATE 1000	RESYGATE 3000
Order No.	2400128	2400129



RS-485 bus coupler with multiplex function

Simple I/O mapping in process use

With the Radioline I/O modules, the RS-485 bus coupler provides you with a multiplexer system specifically for process use. The special feature: easy I/O mapping using the thumbwheel and multi-point operation. Besides this, you can use the module as a Modbus slave station.



Your advantages

- ✓ Easy startup thanks to I/O mapping by simply turning the thumbwheel
- ✓ New options for I/O distribution with up to 99 stations in the bus system thanks to multi-point multiplex operation
- ✓ Expansion of the Radioline wireless system by a cable-bound line structure with up to 99 stations
- ✓ Can be used on any controllers as Modbus RTU slave

Main features

- Extended temperature range: -40°C to +70°C
- Channel-to-channel electrical isolation
- Approvals: ATEX, IECEx and UL

 Web code: #0095	
Description	RS-485 bus coupler
Designation	RAD-RS485-IFS
Order No.	2702184



Antenna barrier for the safe use of standard antennas in the hazardous area

The antenna barrier makes the high-frequency outputs of your wireless modules intrinsically safe in accordance with ignition protection class Ex i. It limits the ignition energy in case of malfunction. This allows you to use standard antennas in potentially explosive areas up to zone 0.



Your advantages

- ✓ Use of cost-efficient standard antennas in the hazardous area of zone 0, 1 and 2
- ✓ Easy and space-saving installation using a wide variety of mounting options within and outside of the control cabinet
- ✓ Also available as a system solution through a suitable, certified product range

Main features

- Frequency range: 0.7 GHz to 6 GHz
- Input power: Up to 2 W
- Insulation voltage: 250 V AC/DC
- Degree of protection: IP55
- Connection method: N (female)
- Ambient temperature range: -40°C to +75°C
- Approvals: ATEX and IECEx

 Web code: #0093	
Description	Antenna barrier
Designation	BAR-ANT-N-N-EX
Order No.	2702198

Segment coupler from PROFIBUS DP to PROFIBUS PA

The new segment coupler offers you a high-performance and reliable interface for connecting your PROFIBUS PA devices to PROFIBUS DP networks. The modular device couplers also provide scalable device connections for both PROFIBUS PA and FOUNDATION Fieldbus applications.



Your advantages

- ✓ Simple PROFIBUS network diagnostics with integrated web server
- ✓ Tailored installation thanks to the modular structure
- ✓ High network availability thanks to robust multi-channel short-circuit protection

Main features

- Segment coupler transmission speed: Up to 12 Mbps
- PROFIBUS device management via FDT/DTM
- Connection option for PROFIBUS PA and FOUNDATION Fieldbus
- Modular device connectivity using DIN rail connector

 Web code: #0091					
Description	PROFIBUS DP/PA segment coupler	PROFIBUS DP extension module	PROFIBUS PA extension module	Main line module	Device coupler
Designation	FB-HSB-DP/PA	FB-DP-RPTR	FB-PA/SC	FB-ET/E	FB-2SP/E
Order No.	2316370	2316373	2316375	2316050	2316052

Test device for arresters

Now with touchscreen and USB interface

The CHECKMASTER 2 allows you to check the functions of surge protective devices effortlessly. During a check, an electrical test is carried out on all relevant components in accordance with normative requirements. This provides meaningful results that you can use to achieve high system availability.



Your advantages

- ✓ Modular testing thanks to interchangeable test sockets
- ✓ Documentation of test results through integrated memory
- ✓ Evaluation of the test results via USB interface
- ✓ Easy to use via handheld scanner and touchscreen
- ✓ Lab-similar function testing on-site thanks to mobile test device

Main features

- Integrated high voltage and constant current source
- Test sockets for almost all surge protection plugs
- Robust transport case
- Use in industrial environments
- Free software update

 Web code: #0108		
Description	Arrester test device	Test socket for PLUGTRAB PT and PLUGTRAB SEC (example)
Designation	CHECKMASTER 2	CM 2-PA-PT/PLT
Order No.	2905256	2905284

Surge protection for power supplies with high nominal voltages

Protect your applications in the high nominal voltage range with the new FLASHTRAB-SEC-PLUS type 1 lightning arrester. Used in the main power supply, it provides reliable protection, even in areas with high voltage fluctuations. The arresters cope with even extreme lightning currents without any problems.



Safe Energy Control Technology
Designed by PHOENIX CONTACT

Your advantages

- ✓ Long service life of the arrester and the electric installation thanks to SEC technology with a spark gap free of line-follow current.
- ✓ Space-saving in installation thanks to compact design
- ✓ Easy exchange in case of service thanks to continuously pluggable protective devices
- ✓ Individual marking options due to generous marking surfaces
- ✓ No reversing of plugs thanks to mechanical coding

Main features

- Maximum continuous voltage: 350 V AC for 230/400 V AC power supplies
- Also suitable for use in the pre-meter area
- Voltage protection level: 1.5 kV
- Floating remote indication contact
- Visual mechanical status indicator
- Plugs can be checked with Checkmaster

 Web code: #0113					
	Type 1 lightning arrester				
Description					
Network type	TN-S/TT	Single-phase TN-S/TT	2-phase TN-S/TT	3-phase TN-C	3-phase TN-S/TT
Nominal voltage	240 V AC		240/415 V AC		
Impulse discharge current I_{imp}	100 kA (N-PE)	25 kA (L-N)	25 kA (L-N)	25 kA (L-PEN)	25 kA (L-N)
Designation	FLT-SEC-P-T1-N/PE-350/100-FM	FLT-SEC-P-T1-1S-350/25-FM	FLT-SEC-P-T1-2S-350/25-FM	FLT-SEC-P-T1-3C-350/25-FM	FLT-SEC-P-T1-3S-350/25-FM
Order No.	2905472	2905415	2905418	2905419	2905421

Surge protection for power supplies with extremely high nominal voltages

The new FLASHTRAB-SEC-PLUS 440 is a particularly high-performance and robust type 1 arrester for 440/690 volt systems. The compact design allows you to have a space-saving and flexible installation. Shock and vibration resistance allows use in wind power and industrial applications.



Your advantages

- ✓ Long service life of the arrester and the electric installation thanks to SEC technology with a spark gap free of line-follow current.
- ✓ Space-saving in installation thanks to compact design
- ✓ Easy exchange in case of service thanks to continuously pluggable protective devices
- ✓ Suitable for use in IT systems thanks to fulfilled TOV requirements
- ✓ No reversing of plugs thanks to mechanical coding

Main features

- Maximum continuous voltage: 440 V AC for 440/690 V AC power supplies
- Voltage protection level: 2.5 kV
- Also suitable for use in the pre-meter area
- Floating remote indication contact
- Visual mechanical status indicator
- Plugs can be checked with Checkmaster

 Web code: #0114			
	Type 1 lightning arrester		
Description			
Network type	Single-phase TN-C	3-phase TN-C	
Nominal voltage	400 V AC		
Impulse discharge current I_{imp}	25 kA (L-PEN)		
Designation	FLT-SEC-P-T1-1C-440/25-FM	FLT-SEC-P-T1-3C-440/25-FM	
Order No.	2905987	2905871	

Surge protection for power supplies with integrated backup fuse

The new FLASHTRAB-SEC-HYBRID is the first plug-in type 1 arrester with an integrated backup fuse, combined with a high-performance spark gap, allowing you to save space in the control cabinet and time during installation. The arrester is ideally suited for use in 230/400 V power supply systems.



Your advantages

- ✓ Long service life of the arrester and the electric installation thanks to SEC technology with a spark gap free of line-follow current.
- ✓ Space-saving in installation due to compact design and integrated backup fuse
- ✓ Easy pulling and plugging with innovative push-pull locking mechanism
- ✓ Lower wiring costs due to integrated backup fuse
- ✓ No reversing of plugs thanks to mechanical coding

Main features

- Maximum continuous voltage: 264 V AC for 230/400 V AC power supplies
- Voltage protection level: 1.5 kV
- Also suitable for use in the pre-meter area
- Floating remote indication contact
- Visual mechanical status indicator
- Plugs can be checked with Checkmaster

 Web code: #0115		
Description	Type 1 lightning arrester	
Network type	Single-phase TN-C	3-phase TN-C
Nominal voltage	240 V AC	
Impulse discharge current I_{imp}	25 kA (L-PEN)	
Designation	FLT-SEC-H-T1-1C-264/25-FM	FLT-SEC-H-T1-3C-264/25-FM
Order No.	2801615	2905871

Surge protection for power supplies for universal use

The new FLASHTRAB-SEC T1+T2 is a unique and very narrow combination of a type 1 lighting arrester and type 2 surge protective device. Use the high-performance protection in environments with frequent switch actions. Lightning currents are managed safely and surge voltages are limited reliably.



Safe Energy Control Technology
Designed by PHOENIX CONTACT

Your advantages

- ✓ Long service life of the arrester and the electric installation thanks to SEC technology with a spark gap free of line-follow current.
- ✓ Installation effort reduced to a minimum thanks to combined arresters
- ✓ Easy exchange in case of service thanks to continuously pluggable protective devices
- ✓ Individual marking options due to generous marking surfaces
- ✓ No reversing of plugs thanks to mechanical coding

Main features

- Maximum continuous voltage: 350 V AC for 230/400 V AC power supplies
- Voltage protection level: 1.5 kV
- Spark gap and varistor coordinated directly
- Floating remote indication contact
- Visual mechanical status indicator
- Plugs can be checked with Checkmaster

 Web code: #0116				
Description	Lighting current/surge arrester combination Type 1 + Type 2			
Network type	Single-phase TN-S/TT	2-phase TN-S/TT	3-phase TN-S/TT	3-phase TN-C
Nominal voltage	240 V AC/415 V AC			
Nominal discharge current	100 kA (N-PE)			25 kA (L-PEN)
Designation	FLT-SEC-T1+T2-1S-350/25-FM	FLT-SEC-T1+T2-2S-350/25-FM	FLT-SEC-T1+T2-3C-350/25-FM	FLT-SEC-T1+T2-3S-350/25-FM
Order No.	2905466	2905468	2905470	2905469

Surge protection for power supplies in the main, sub and miniature distribution systems

The new VALVETRAB-SEC is the most narrow type 2 surge arrester in the world. Its compact design and high output make it an excellent protection option with minimum space requirements.

It allows you to use the arrester in main, sub and miniature distribution systems without any problems.



Safe Energy Control Technology
Designed by PHOENIX CONTACT

Your advantages

- ✓ Long service life of the arrester and electric installation thanks to SEC technology
- ✓ Space-saving installation thanks to compact design and fuseless use up to 315 A with stub wiring
- ✓ Easy exchange in case of service thanks to continuously pluggable protective devices
- ✓ High system availability thanks to high-performance protective circuit
- ✓ No reversing of plugs thanks to mechanical coding

Main features

- Maximum continuous voltage: 350 V AC for 230/400 V AC power supplies
- Short circuit stability: Up to 50 kA
- Voltage protection level: 1.5 kV
- Floating remote indication contact
- Visual mechanical status indicator
- Plugs can be checked with Checkmaster

 Web code: #0117					
Description	Type 2 surge arresters				
Network type	Single-phase TN-S/TT	2-phase TN-C	2-phase TN-S/TT	3-phase TN-C	3-phase TN-S/TT
Nominal voltage	240 V AC	240 V AC/415 V AC			
Nominal discharge current	20 kA (N-PE)				
Designation	VAL-SEC-T2-1S-350-FM	VAL-SEC-T2-2C-350-FM	VAL-SEC-T2-2S-350-FM	VAL-SEC-T2-3C-350-FM	VAL-SEC-T2-3S-350-FM
Order No.	2905333	2905337	2905338	2905339	2905340

Surge protection for power supplies of end consumers

The new PLUGTRAB-SEC is the ideal type 3 device protection for supplying power to end consumers. It has an integrated, surge-current-proof backup fuse and is available in various voltage variants. The versatile unit can be used in the DC and AC voltage area.

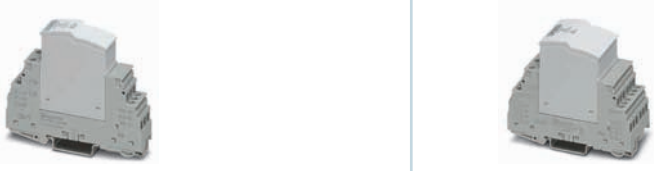


Your advantages

- ✓ Long service life of the arrester and electric installation thanks to SEC technology
- ✓ Space-saving in installation thanks to narrow design and integrated backup fuse
- ✓ Easy replacement in the event of a service call thanks to plug-in protective devices
- ✓ High system availability thanks to high-performance protective circuit
- ✓ No reversing of plugs thanks to mechanical coding

Main features

- Load current: Up to 26 A
- For single-phase and 3-phase power supply systems
- Floating remote indication contact
- Visual status indicator
- Plugs can be checked with Checkmaster

 Web code: #0118			
Description	Type 3 device protection		
Network type	Single-phase TN-S/TT	Single-phase TN-S/TT	3-phase TN-S/TT
Nominal voltage	24 V AC	230 V AC	
Impulse withstand voltage	2 kV	6 kV	
Maximum continuous voltage	34 V AC	264 V AC	
Designation	PLT-SEC-T3-24-FM	PLT-SEC-T3-230-FM	PLT-SEC-T3-3S-230-FM
Order No.	2905223	2905229	2905230

Surge protection for power supplies

Optimal for LED applications

The new BLT-T2 surge protective devices are designed specifically for road, tunnel and object lighting. Thanks to their compact design and the various connection and mounting options, you can install them in almost any application.



Your advantages

- ✓ Easy retrofitting thanks to compact design
- ✓ Flexible mounting thanks to integrated elongated holes
- ✓ Can be used in a wide variety of applications thanks to versions for protection classes I and II
- ✓ High electric strength due to double isolation
- ✓ Wide range of possible applications thanks to wide voltage range

Main features

- Stub or through-wiring connection
- Reinforced isolation
- Visual mechanical status indicator
- Discharge capacity: 5 kA
- Low voltage protection level
- Corresponds to arrester classes type 2 and type 3
- Easy installation

 Web code: #0112		
Description	Surge protection without ground connection	Surge protection with ground connection
Network type	Single-phase TN-S/TT	Single-phase TN-S/TT
Nominal voltage	100/277 V AC	100/277 V AC
Nominal discharge current	5 kA (L-N)	10 kA (N-PE)
Maximum continuous voltage	320 V AC	320 V AC (L-N)/264 V AC (N-PE)
Designation	BLT-T2-320-UT	BLT-T2-1S-320-UT
Order No.	2906100	2906101

Isolating spark gap for lightning protection equipotential bonding

Insert the new FLASHTRAB-ISG isolating spark gap to electrically isolate electrically conductive system parts. It is used as potential equalization to limit voltage increases. Its high discharge capacity makes it an ideal protection for an insulating flange to pipeline segments.



Your advantages

- ✓ Optimum protection for insulating flange thanks to arrester sorting class H
- ✓ Individual mounting through comprehensive connecting material
- ✓ Can be used in potentially explosive areas thanks to special approvals
- ✓ Suitable for use in harsh ambient conditions thanks to robust cast iron housing

Main features

- Maximum arrester sorting class H
- Impulse discharge current I_{imp} : 100 kA
- Is used as cathodic corrosion protection
- Approvals : ATEX and IEC EX

 Web code: #0109				
Description	Isolating spark gap	Connection bracket	Terminal board	Connecting cable
Response voltage	1250 V (1.2/50 μ s)	-	-	-
Power-frequency withstand voltage	250 V AC	-	-	-
Thread/diameter	Screw M10	42 mm	42 mm	Screw M10
Cable lengths	-	-	-	200 mm
Designation	FLT-ISG -100-EX	FLT-ISG-BR-42	FLT-ISG-PL-42	FLT-ISG-CA-200
Order No.	2905579	2905762	2905756	2905590

Intelligent surge protection for information technology

PLUGTRAB PT-IQ is the intelligent surge protection device with multi-stage signaling and remote signaling for measurement and control and information technology. Using the new PLUGTRAB PT-IQ-TELE, the comprehensive product range is completed by a version free of ground potential for use in your DSL application.



Your advantages

- ✓ Status of protection is always clear thanks to the multi-stage signaling and remote signaling
- ✓ "Yellow" status clearly indicates that arrester is at maximum capacity
- ✓ Preventive action can be taken before protection fails
- ✓ Error-free installation thanks to coded plugs and base elements
- ✓ Faster installation thanks to push-in connection

Main features

- Special circuit breaker for telecommunications interfaces
- Protection of up to 5 signals in 17.5 mm
- Surge-current-resistant contact with the DIN rail
- Variable connection technology
- Up to 28 protection modules per supply module

 Web code: #0110	
Description	Surge protection for DSL applications
Connection technology	Push-in
Nominal current	150 mA
Nominal voltage	180 V DC
Ground connection	Direct
Designation	PT-IQ-1X2- TELE-PT
Order No.	2801290

Intelligent surge protection for measurement and control technology

PLUGTRAB PT-IQ are the intelligent surge protection devices with multi-stage signaling and remote signaling. The product range has been extended with a variety of voltage and circuit versions in order to provide the right surge protection for every application.



Your advantages

- ✓ Status of protection is always clear thanks to the multi-stage signaling and remote signaling
- ✓ "Yellow" status clearly indicates that arrester is at maximum capacity
- ✓ Preventive actions can be taken before protection fails
- ✓ Error-free installation thanks to coded plugs and base elements
- ✓ Faster installation with push-in connection technology

Main features

- Protection of up to 5 signals in 17.5 mm
- Surge-current-resistant contact with the DIN rail
- Variable connection technology
- Up to 28 protection modules per supply module

 Web code: #0111			
	Description	Complete module for 2 double wires (loops)	Complete module for 4 double wires (loops)
Connection technology	Push-in	Push-in	Push-in
Nominal current	700 mA	700 mA	700 mA
Nominal voltage	12 V DC	12 V DC	48 V DC
Ground connection	Direct	Direct	Direct
Designation	PT-IQ-2X2-12DC-PT	PT-IQ-4X1-12DC-PT	PT-IQ-4X1-48DC-PT
Order No.	2801261	2801269	2801273

Device circuit breaker boards for effortless potential distribution

The new CBB...RC PT multi-channel device circuit breaker boards can be equipped individually with thermomagnetic and electronic device circuit breakers. For each channel, you can secure up to four loads. Besides this, separate connection options exist for external relay contacts.



Your advantages

- ✓ Reduced installation effort thanks to central potential distribution
- ✓ Connection option for external relay contacts thanks to separate terminal points
- ✓ Integrated group remote signaling ensures you are always kept informed
- ✓ Supply of up to 60 A due to the high current carrying capacity
- ✓ Saves up to 35% space in the control cabinet due to compact design

Main features

- Protect up to four loads simultaneously
- Redundant power supply possible
- Group remote signaling can be divided in two groups
- Power supply: up to 16 mm²
- Maximum protection: 12 A per channel

 Web code: #0106			
	4-channel potential distributor	8-channel potential distributor	12-channel potential distributor
Description			
Channels	4	8	12
Group remote signaling	2 x 2	2 x 4	2 x 6
Max. supply current	48 A	60 A	60 A
Rated voltage	24 V DC	24 V DC	24 V DC
Designation	CBB 04 2X2RC-PT	CBB 08 2X4RC-PT	CBB 12 2X6RC-PT
Order No.	2905238	2905240	2905241

Single-channel electronic device circuit breakers with inverted status output

The CB-E1 24DC/...SI... device circuit breakers allow you to protect your machines and systems in the case of overvoltage and short circuit. The new device circuit breakers with inverted status output enable group messages in case of error.



Your advantages

- ✓ Can be modularly extended using the uniform plug-in housing concept
- ✓ Variable connection technology thanks to push-in, screw connection or soldering base for the printed-circuit board
- ✓ Enable long cable paths using active current limitation
- ✓ Space-saving installation thanks to slim design
- ✓ High system availability thanks to selective protection

Main features

- Active status signal in the event of an error
- Precise nominal current levels: 1 A to 10 A
- Overall width: 12.3 mm
- Supply and remote signaling can be bridged
- Remote-controlled reset or control input
- Integrated active current limitation

 Web code: #0105		
Description	Device circuit breaker with inverted status output and reset input	Device circuit breaker with inverted status output and control input
Operating voltage	24 V DC	24 V DC
Nominal current	8 A	8 A
Function	Reset input	Control input
Electric strength	Up to 30 V DC	Up to 30 V DC
Designation	CB E1 24DC/8A SI-R P	CB E1 24DC/8A SI-C P
Order No.	2905804	2905811



Multi-channel electronic device circuit breaker for protection against voltage dips

Maximum functions at minimal overall width: In a space-saving and secure manner, you can protect your circuits in cases of overvoltage and short-circuit currents using the new multi-channel electronic device circuit breakers. The four and eight-channel devices can be installed and intuitively programmed quickly and without the use of tools.



Your advantages

- ✓ Protection from incorrect settings thanks to electronic locking of the nominal current range
- ✓ Accurately configurable channels thanks to nominal current ranges in fine increments
- ✓ Increased system availability using dynamic current limitation
- ✓ Continuous status monitoring of individual channels using multi-stage status indicator
- ✓ Individual adjustability using potentiometer for each channel

Main features

- Nominal current levels: 0.5 A to 10 A
- Design: 41 mm
- Power supply: up to 16 mm²
- Protection of 24 V DC circuits
- Early warning at 80% workload per channel with central remote signaling
- Electronic locking of the nominal current settings

 Web code: #0107		
Description	4-channel electronic device circuit breaker	8-channel electronic device circuit breaker
Rated current I _N	0.5 A DC/1 A DC/2 A DC/4 A DC/6 A DC/10 A DC	0.5 A DC/1 A DC/2 A DC/4 A DC/6 A DC/10 A DC
Active current limitation	Typ. 1.5 × I _N	Typ. 1.5 × I _N
Operating temperature	-25°C to +70°C	-25°C to +70°C
Maximum current	40 A	80 A
Designation	CBM E4 24DC/0,5-10A NO-R	CBM E8 24DC/0,5-10A NO-R
Order No.	2905743	2905744

Power supplies with standard functionality

Ideal for machine building

The new generation of the TRIO POWER power supply range has been perfected for use in machine building. All functions and the space-saving design are optimally coordinated to the stringent requirements. Under challenging ambient conditions, the power supply units, which feature an extremely robust electrical and mechanical design, ensure the reliable supply of all loads.



Your advantages

- ✓ High system availability due to robust design
- ✓ Space savings in the control cabinet thanks to the narrow design
- ✓ Reliable starting of heavy loads with dynamic boost
- ✓ Quick and easy installation due to push-in connection
- ✓ Flexible thanks to large input voltage and temperature range and comprehensive approvals package

Main features

- High shock, vibration and electric strength
- Dynamic boost supplies 1.5 times the nominal current for 5 seconds
- LED and relay contact signal DC OK
- Temperature range: -25°C to +70°C, start-up: -40°C
- Output voltage: 24 V DC to 28 V DC, adjustable

 Web code: #0135						
Description	1 AC/ 24 V DC, 5 A	1 AC/ 24 V DC, 10 A	1 AC/ 24 V DC, 20 A	3 AC/ 24 V DC, 5 A	3 AC/ 24 V DC, 10 A	3 AC/ 24 V DC, 20 A
Nominal input voltage	100 V AC to 240 V AC			3x 400 V AC to 500 V AC		
Nominal input voltage	110 V DC to 250 V DC			600 V DC		
Output current/ dynamic boost	5 A/7.5 A	10 A/15 A	20 A/30 A	5 A/7.5 A	10 A/15 A	20 A/ 30 A
Dimensions W x H x D	35 mm x 130 mm x 115 mm	42 mm x 130 mm x 160 mm	68 mm x 130 mm x 160 mm	35 mm x 130 mm x 115 mm	42 mm x 130 mm x 160 mm	65mm x 130 mm x 160 mm
Designation TRIO-PS-2G/...	...1AC/24DC/5	...1AC/24DC/10	...1AC/24DC/20	...3AC/24DC/5	...3AC/24DC/10	...3AC/24DC/20
Order No.	2903148	2903149	2903151	2903153	2903154	2903155



Power supplies with basic functionality Now for power up to 240 W

Do you need great performance in the least space possible? UNO POWER is now also available with 150 W and 240 W output voltage. Benefit from the maximum energy efficiency of the 17 power supplies with output voltages from 5 V to 48 V DC.



Your advantages

- ✓ Save energy thanks to particularly low power dissipation (no load) and high efficiency
- ✓ Save space in the control cabinet thanks to the compact housing
- ✓ High reliability thanks to high MTBF
- ✓ Flexible thanks to the large temperature range

Main features

- Efficiency: up to 94%
- Idling losses: under 1.1 W
- Power density: max. 325 W/dm³
- Output voltage: 24 V DC to 28 V DC, adjustable
- DC OK indicated by LED
- Temperature range: -25°C to +70°C

 Web code: #0103		
Description	1 AC/24 DC, 150 W	1 AC/24 DC, 240 W
Nominal input voltage	100 V AC to 240 V AC	100 V AC to 240 V AC
Output current	6.25 A	10 A
MTBF	> 860,000 h	> 560,000 h
Dimensions W x H x D	37 mm x 130 mm x 125 mm	45 mm x 130 mm x 125 mm
Designation	UNO-PS/1AC/24DC/150W	UNO-PS/1AC/24DC/240W
Order No.	2904376	2904372



Uninterruptible power supply with integrated power storage

Save space in the control cabinet or upgrade existing systems very easily using the UNO UPS. For example, supply the sensors with 1 A current for 20 minutes, even when the supply voltage fails.



Your advantages

- ✓ Particularly space-saving: UPS module and power storage combined in one housing
- ✓ Long buffer times with integrated VRLA power storage
- ✓ Durable thanks to gentle charging
- ✓ Flexible thanks to the large temperature range
- ✓ Uniform appearance with UNO POWER power supplies

Main features

- Overall width of UNO POWER 100 W and UNO UPS as a complete solution: 165 mm
- Buffer a 0.5 A load current for 45 minutes or a 2.5 A load current for 5 minutes
- Temperature range: -15°C to +50°C

 Web code: #0104	
Description	UPS with integrated power storage
Nominal input voltage	24 V DC
Nominal output voltage	24 V DC
Output current	2.5 A
Dimensions W x H x D	110 mm x 90 mm x 90 mm
Designation	UNO-UPS/24DC/24DC/60W
Order No.	2905907

DC/DC converter with maximum functionality

Now available for all voltage levels

DC/DC converters of the QUINT POWER product range expand the product range with new voltage levels. The modules alter the voltage level, regenerate the voltage at the end of long cables or enable the creation of independent supply systems by means of electrical isolation.



Your advantages

- ✓ High level of flexibility thanks to large input voltage range
- ✓ Preventive monitoring indicates critical operating states before malfunctions occur
- ✓ Reliable starting of difficult loads thanks to POWER BOOST static power reserve
- ✓ High system availability thanks to quick tripping of circuit breakers (SFB technology)
- ✓ Extremely robust with the protective coating (...CO) for extreme environments

Main features

- Input: 9 to 18 V DC, 30 to 60 V DC and 42 to 96 V DC or 67 to 154 V DC for railway applications
- POWER BOOST $1.25 \times I_N$ continuous, SFB Technology $6 \times I_N$ for 12 ms
- Signaling and reporting DC OK, POWER BOOST and input voltage
- Temperature range: -25°C to +70°C, start-up: -40°C

 Web code: #0102						
Description	12 V DC, 8 A	48 V DC, 5 A	24 V DC, 10 A	24 V DC, 10 A	24 V DC, 10 A with protective coating	24 V DC, 10 A with protective coating
Nominal input voltage	12 V DC	48 V DC	60 V DC to 72 V DC	96 V DC to 110 V DC	60 V DC to 72 V DC	96 V DC to 110 V DC
Nominal output voltage	12 V DC	48 V DC	24 V DC			
Output current/ POWER BOOST/SFB	8 A/10 A/48 A	5 A/6.25 A/30 A	10 A/12.5 A/60 A	10 A/12.5 A/60 A	10 A/12.5 A/60 A	10 A/12.5 A/60 A
Dimensions W x H x D	32 mm x 130 mm x 125 mm	48 mm x 130 mm x 125 mm	48 mm x 130 mm x 125 mm	48 mm x 130 mm x 125 mm	48 mm x 130 mm x 125 mm	48 mm x 130 mm x 125 mm
Designation QUINT-PS/...	... 12DC/12DC/8	... 48DC/48DC/5	... 60-72DC/24DC/10	... 96-110DC/24DC/10	... 60-72DC/24DC/10/CO	... 96-110DC/24DC/10/CO
Order No.	2905007	2905008	2905009	2905010	2905011	2905012

E-Mobility charging cable in accordance with Mode 2

The In-Cable Control and Protection Device (IC-CPD) in accordance with Mode 2 enables electric vehicles to be safely charged at a conventional household socket and en route. The IC-CPD is therefore ideal for flexible vehicle charging en route and at home.



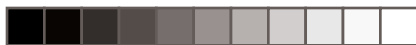
Your advantages

- ✓ Maximum charging current setting for reducing the charging current to 10 A, 8 A or 6 A in circuits that are already under load
- ✓ Robust and run-over resistant housing up to a wheel load of 500 kg
- ✓ Temperature management for protecting the IC-CPD and the infrastructure socket
- ✓ Automatic charge continuation when voltage is restored after a power failure
- ✓ Detection of wiring errors on the infrastructure side and checking of the ground conductor contact

Main features

- Charging currents: up to 13 A
- Charging power: up to 3 kW
- IP67 (electronics module)
- Standard IEC 61851-1/Mode 2
- Temperature range: -32°C to +40°C

 Web code: #0164		
Description	Charging cable with type 1 vehicle connector	Charging cable with type 2 vehicle connector
Designation	EV-ICCPD-T1C-EU-S-13A1-A-GEN2	EV-ICCPD-T2C-EU-S-13A1-A
Region where used	Europe	Europe
Infrastructure plug	SCHUKO connector	SCHUKO connector
Order No.	1621797	1621516



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Product range

- Cables and connectors
- Controllers and PLCs
- DIN rail power supplies and UPS
- Electronic reversing contactors and motor control
- Electronics housing
- Ethernet networks
- Fieldbus components and systems
- Functional safety
- HMIs and industrial PCs
- I/O systems
- Industrial communication technology
- Industrial lighting
- Installation and mounting material
- Marking and labeling
- Measurement and control technology
- Modular terminal blocks
- Monitoring and signaling
- PCB terminal blocks and PCB connectors
- Plug-in connectors
- Protective devices
- Relays
- Sensor cables and connectors
- Software
- Surge protection devices
- System cabling for DCS and PLC
- Tools
- Wireless data communication

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2000018/25.03.2015-01 PRINTED IN INDIA