

**COMPLETE  
CABINET  
CONFIDENCE**

BUILD WITH CONFIDENCE

## Quick Reference Guide

Technical Support 1300 786 411  
[customerservice@phoenixcontact.com.au](mailto:customerservice@phoenixcontact.com.au)





## Build with complete confidence

Phoenix Contact is a global market leader in industrial electronics and automation technologies with a comprehensive product and service offering that ensures the most functional, reliable, innovative, future proof, and cost-effective control cabinet solution.

Partnering with Phoenix Contact ensures an unparalleled offering, consisting of:

- ★ **Lifetime Warranty**  
The industry's most comprehensive warranty program, guarantees you long-term reliability of your systems and applications.
- ★ **Price Guarantee**  
The perfect combination of price and features.
- ★ **Availability Guarantee**  
We help you build effective and efficient systems fast by providing you products right when you need them
- ★ **E-Platform**  
Information at your fingertips enables automatic checking and direct ordering.
- ★ **Industry 4.0/IoT Readiness**  
Be ready now and for the future with Phoenix Contact.

## VALUE-ADDED SERVICES

- Fully assembled and marked terminal strips with accessories.
- Order complete assembly under a single article number.
- Simply install and connect.
- Reduce the effort of materials and stock management.
- Flexible supply chain management.

## COMPLETE DIN-RAIL ASSEMBLY DESIGN

- Intuitive user interface for configuring terminal strips with intelligent functions such as auto correction, speed marking, or 3D visualisation of projects.
- Professional software for marking of labelling materials for terminal blocks, conductors, cables, devices, and systems.
- Perfect integration, thanks to optimised interfaces to all common CAE programs and spreadsheet formats.
- Equipped with an official template designer which allows users to create their own markings and adapt existing material descriptions.

## COMPLETE PRODUCT PORTFOLIO

- Optimises control cabinet design and construction.
- Technologically leading products.
- Minimise logistics costs by reducing the variety of parts, thanks to standardised marking, bridging, and testing accessories.

## FIVE FUNCTIONAL AREAS



### Power Reliability

The heart of your installation, all control systems are dependent on being properly powered and protected. Surge and circuit protection, UPS backup, and redundant power solutions are the foundation on which reliable control systems should be built.



### Connectivity, Switching and Conversion

Never take a good connection for granted, the connection of those wires, the switching and/or isolation of the signals are only as reliable as the quality of the terminations and electronics.



### Automation, Networks and I/O

From single components to complete integrated systems, Phoenix Contact provides cost-effective, reliable solutions for industrial networking and automation.



### Safety

Enact safety measures without limiting production flexibility of machines or production cells. Proper implementation means increased productivity, uptime, and profitability.



### Shopfloor Productivity

Efficiently building a quality control cabinet starts with what you use to build it. A thoughtful selection of products to reduce cost and save time translates directly to the bottom-line profitability of any shop floor.

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## Automation, Networks and I/O

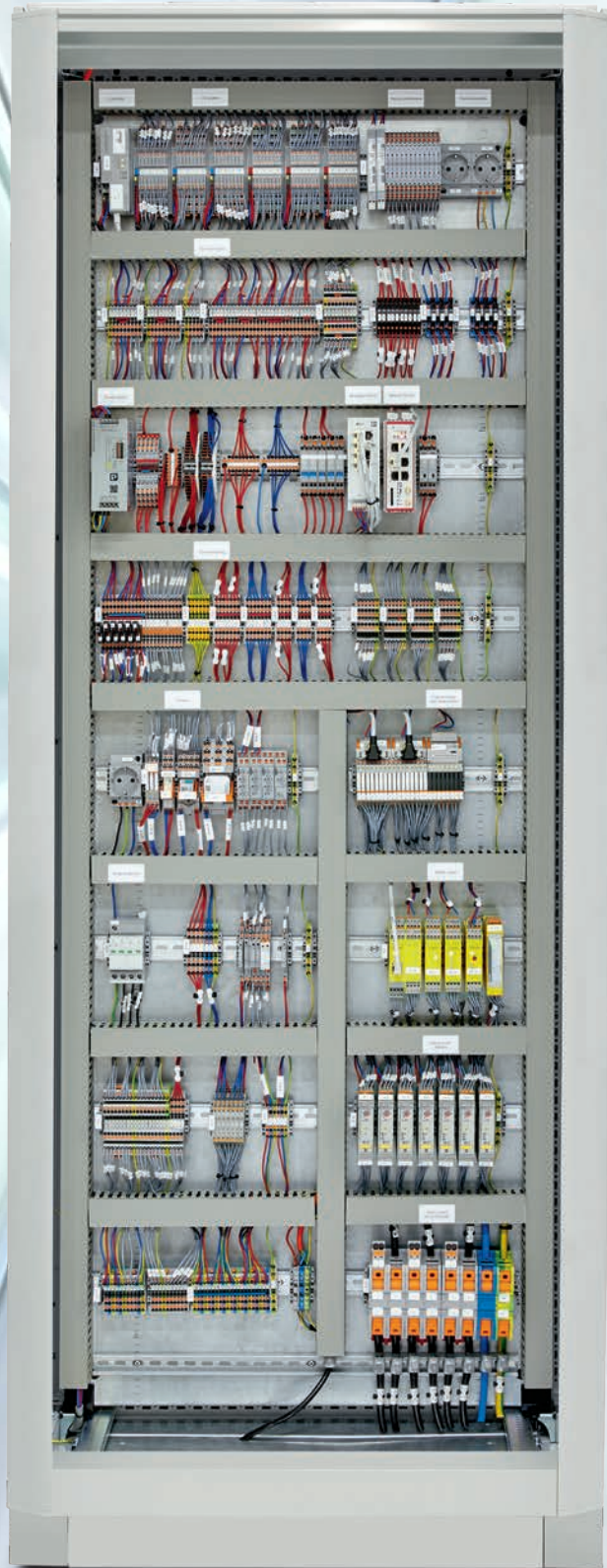
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# Power Supplies

AC Input to DC Output



**Power supply**  
AC Input to DC Output



<span style="background-color: #00A6C9; color: white; padding: 2px;"> </span> Do you need a single-phase or a three-phase power supply?			
<span style="background-color: #92D050; color: white; padding: 2px;"> </span> What is the output DC voltage?			
<span style="background-color: #A9C9D9; color: white; padding: 2px;"> </span> What is your output current (Amps)?			
<span style="background-color: #808080; color: white; padding: 2px;"> </span> What functionality do you require?	Basic	Standard	Maximum
<span style="background-color: #C06060; color: white; padding: 2px;"> </span> Have you considered surge protection with a Lifetime Warranty?			
<span style="background-color: #FFD700; color: white; padding: 2px;"> </span> Resulting Phoenix Contact part number			

## QUINT4 Power Supplies



## TRIO Power Supplies



## UNO Power Supplies



## Essential Power Supplies



## STEP Power Supplies



## The Unbeatable Team!

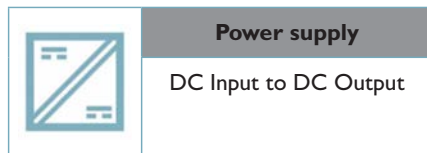


Phase	Output Voltage	Output Current	Description	Connection Technology	Order #	
1-Phase	5 V DC	3A	STEP3-PS/1AC/5DC/3/PT	Push-in	1170954	
		5A	UNO-PS/1AC/ 5DC/ 25W	Screw	2904374	
		5A	QUINT4-PS/1AC/5DC/5/PT	Push-in	2904595	
		6.5A	STEP-PS/ 1AC/ 5DC/6.5	Screw	2868541	
		1.3A	STEP3-PS/1AC/12DC/1.3/PT	Push-in	1170952	
	12 V DC	2.5A	STEP3-PS/1AC/12DC/2.5/PT	Push-in	1170953	
		2.5A	UNO-PS/1AC/12DC/ 30W	Screw	2902998	
		2.5A	QUINT4-PS/1AC/12DC/2.5/PT	Push-in	2904605	
		3A	STEP-PS/ 1AC/12DC/3	Screw	2868570	
		5A	STEP-PS/ 1AC/12DC/5	Screw	2868583	
		5A	TRIO-PS-2 G/1AC/12DC/5/C2LPS	Push-in	2903157	
		7.5A	QUINT4-PS/1AC/12DC/7.5D/PT	Push-in	2904607	
		8.3A	UNO-PS/1AC/12DC/100W	Screw	2902997	
		10A	TRIO-PS-2G/1AC/12DC/10	Push-in	2903158	
		15A	QUINT4-PS/1AC/12DC/15	Screw	2904608	
		20A	QUINT-PS/1AC/12DC/20	Screw	2866721	
		2.0A	UNO-PS/1AC/15DC/30W	Screw	2903000	
		4.0A	STEP-PS/1AC/15DC/4	Screw	2868619	
		15 V DC	0.63A	STEP3-PS/1AC/24DC/0.63/PT	Push-in	1088495
			1.25A	UNO-PS/1AC/24DC/ 30W	Screw	2902991
	1.3A		STEP3-PS/1AC/24DC/1.3/PT	Push-in	1088494	
	1.3A		QUINT4-PS/1AC/24 DC/1.3/PT	Push-in	2909575	
	1.3A		QUINT4-PS/1AC/24 DC/1.3/SC	Screw	2904597	
	2.5A		STEP3-PS/1AC/24DC/2.5/PT	Push-in	1088491	
	2.5A		UNO-PS/1AC/24DC/ 60W	Screw	2902992	
	2.5A		TRIO-PS/1AC/24 DC/2.5	Push-in	2866268	
	2.5A		QUINT4-PS/1AC/24DC/2.5/PT	Push-in	2909576	
	2.5A		QUINT4-PS/1AC/24DC/2.5/SC	Screw	2904598	
	3A		TRIO-PS-2G/1AC/24DC/3/C2LPS	Push-in	2903147	
	3.8A		QUINT4-PS/1AC/24DC/3.8/PT	Push-in	2909577	
	3.8A		QUINT4-PS/1 AC/24 DC/3.8/SC	Screw	2904599	
	4A		STEP3-PS/1AC/24DC/4/PT	Push-in	1140066	
	4.2A		UNO-PS/1AC/24DC/100W	Screw	2902993	
	5A		STEP3-PS/1AC/24DC/5/PT	Push-in	1088478	
	5A		ESSENTIAL-PS/1AC/24DC/120W/EE	Screw	2910586	
	5A		TRIO-PS-2G/1AC/24DC/5	Push-in	2903148	
	5A		QUINT4-PS/1AC/24DC/5	Screw	2904600	
	10A		ESSENTIAL-PS/1AC/24DC/240W/EE	Screw	2910587	
	10A	TRIO-PS-2G/1AC/24DC/10	Push-in	2903149		
	10A	QUINT4-PS/1AC/24DC/10	Screw	2904601		
	20A	ESSENTIAL-PS/1AC/24DC/480W/EE	Screw	2910588		
	20A	TRIO-PS-2G/1AC/24DC/20	Push-in	2903151		
	20A	QUINT4-PS/1AC/24DC/20	Screw	2904602		
	40A	QUINT4-PS/1AC/24DC/40	Screw	2904603		
	48 V DC	1.25A	UNO-PS/1AC/48DC/ 60W	Screw	2902995	
		2.1A	UNO-PS/1AC/48DC/100W	Screw	2902996	
		5A	UNO2-PS/1AC/48DC/240W	Screw	1110155	
		5A	TRIO-PS-2G/1AC/48DC/5	Push-in	2903159	
		5A	QUINT4-PS/1AC/48DC/5	Screw	2904610	
		10A	TRIO-PS-2G/1AC/48DC/10	Push-in	2903160	
10A		QUINT4-PS/1AC/48DC/10	Screw	2904611		
20A		QUINT4-PS/1AC/48DC/20	Screw	2904612		
4A		QUINT4-PS/1AC/110DC/4	Screw	2904613		
110 V DC						
3-Phase	24 V DC	5A	TRIO-PS-2G/3AC/24DC/5	Push-in	2903153	
		5A	QUINT4-PS/3AC/24DC/5	Screw	2904620	
		10A	TRIO-PS-2G/3AC/24DC/10	Push-in	2903154	
		10A	QUINT4-PS/3AC/24 DC/10	Screw	2904621	
		20A	TRIO-PS-2G/3AC/24DC/20	Push-in	2903155	
		20A	QUINT4-PS/3AC/24DC/20	Screw	2904622	
		40A	TRIO-PS-2G/3AC/24DC/40	Push-in	2903156	
		40A	QUINT4-PS/3AC/24DC/40	Screw	2904623	
		20A	QUINT4-PS/3AC/48DC/20	Screw	2904627	
		48 V DC				



# Power Supplies - DC to DC Converters

DC Input to DC Output



**Power supply**

DC Input to DC Output

Do you need a single-phase or a three-phase power supply?	
What is the output DC voltage?	
What is your output current (Amps)?	
What functionality do you require?	Standard    Maximum
Have you considered surge protection with a Lifetime Warranty?	
Resulting Phoenix Contact part number	

Input Voltage	Output Voltage	Output Current	Description	Connection Technology	Order #
12-24 V DC	5 -15 V DC	2A	MINI-PS- 12- 24DC/ 5-15DC/2	Screw	2320018
		2.5A	QUINT4-PS/12-24DC/5-15DC/2.5/PT	Push-in	1066704
12 V DC	12 V DC	8A	QUINT-PS/12DC/12DC/8	Screw	2905007
24 V DC	12 V DC	8A	QUINT4-PS/24DC/12DC/8/PT	Push-in	2910122
12-24 V DC	24 V DC	1.3A	QUINT4-PS/12-24DC/24DC/1.3/PT	Push-in	1066716
		1.3A	QUINT4-PS/12-24DC/24DC/1.3/SC	Screw	1066703
		2.5A	QUINT4-PS/12-24DC/24DC/2.5/PT	Push-in	1066714
		2.5A	QUINT4-PS/12-24DC/24DC/2.5/SC	Screw	1066718
12 V DC	24 V DC	5A	QUINT4-PS/12DC/24DC/5/PT	Push-in	2910124
		5A	QUINT-PS/12DC/24DC/ 5	Screw	2320131
24 V DC	24 V DC	5A	QUINT4-PS/24DC/24DC/5/PT	Push-in	2910119
		5A	QUINT4-PS/24DC/24DC/5/SC	Screw	1046800
		10A	QUINT4-PS/24DC/24DC/10/PT	Push-in	2910120
		10A	QUINT4-PS/24DC/24DC/10/SC	Screw	2903158
		20A	QUINT4-PS/24DC/24DC/20/PT	Push-in	2910121
		20A	QUINT4-PS/24DC/24DC/20/SC	Screw	1046805
48-60 V DC	24 V DC	1.0A	MINI-PS- 48- 60DC/24DC/1	Screw	2866271
48-110 V DC	24 V DC	2.5A	QUINT4-PS/48-110DC/24DC/2.5/PT	Push-in	1066708
96-110 V DC	24 V DC	10A	QUINT-PS/96-110DC/24DC/10	Screw	2905010
48 V DC	24 V DC	5A	QUINT-PS/48DC/24DC/ 5	Screw	2320144
		5A	QUINT4-PS/48DC/24DC/5/PT	Push-in	2910125
12-24 V DC	48 V DC	0.7A	MINI-PS- 12- 24DC/48DC/0.7	Screw	2320021
24-48 V DC	48 V DC	2A	QUINT4-PS/24-48DC/48DC/2/PT	Push-in	1098676
24 V DC	48 V DC	5A	QUINT4-PS/24DC/48DC/5/PT	Push-in	2910123
		5A	QUINT-PS/24DC/48DC/ 5	Screw	2320128
48 V DC	48 V DC	5A	QUINT4-PS/48DC/48DC/5/PT	Push-in	2910128
			QUINT-PS/48DC/48DC/5	Screw	2905008

Input Voltage	Output voltage	Output Current	Description	Connection Technology	Order #
350 - 900 V DC	24 V DC	2.5A	MINI-PS- 12- 24DC/ 5-15DC/2	Screw	2906300
1500 V DC	24 V DC	1.5A	QUINT-PS/12DC/12DC/8	Push-in	1107892
1500 V DC	24 V DC	8A	QUINT4-PS/24DC/12DC/8/PT	Push-in	1075240

QUINT4 DC-DC Converters



Mini Power DC-DC Converters



DC-DC Converters for Photovoltaics



## Recommended Surge Protection for LIFETIME WARRANTY

Recommended Surge Protection on Power Supply Input for Lifetime Warranty**						
Phase	Voltage	Max Surge Current (IMAX)	Load Current	Type Description	Connection Technology	Order #
1-phase	230 V AC	10 kA	26A	PLT-SEC-T3-230-FM-PT*	Push-in	2907928
	230 V AC	10 kA	26A	PLT-SEC-T3-230-FM-UT*	Screw	2907919
	230 V AC	40 kA	NA	VAL-MS 230/1+1	Screw	2804429
3-phase	230 V AC	40 kA	NA	VAL-MS 230/1+1-FM*	Screw	2804432
	230/400 V AC	40 kA	NA	VAL-MS 230/3+1-PT	Push-in	1248961
	230/400 V AC	40 kA	NA	VAL-MS 230/3+1 FM-PT*	Push-in	1248960
	230/400 V AC	40 kA	NA	VAL-MS 230/3+1	Screw	2838209
	230/400 V AC	40 kA	NA	VAL-MS 230/3+1-FM*	Screw	2838199

\* FM - Remote relay alarm output. \*\* Go to [www.phoenixcontact.com/en-au/au-lifetime-warranty](http://www.phoenixcontact.com/en-au/au-lifetime-warranty) for full details

The Unbeatable Team!



Recommended Surge Protection on Power Supply Input for Lifetime Warranty**						
Power Supply Input Voltage	Voltage	Max Surge Current (IMAX)	Load Current	Type Description	Connection Technology	Order #
48-110 V DC	120 V AC / DC	10 kA	26A	PLT-SEC-T3-120-FM-PT*	Push-in	2907927
	120 V AC / DC	10 kA	26A	PLT-SEC-T3-120-FM-UT*	Screw	2907918
48 V DC	60 V AC / DC	4 kA	26A	PLT-SEC-T3-60-FM-PT*	Push-in	2907926
	60 V AC / DC	4 kA	26A	PLT-SEC-T3-60-FM-UT*	Screw	2907917
12-24 V DC	24 V AC / DC	4 kA	26A	PLT-SEC-T3-24-FM-PT*	Push-in	2907925
	24 V AC / DC	4 kA	26A	PLT-SEC-T3-24-FM-UT*	Screw	2907916
	24 V DC	1 kA (In)	6A	TTC-6P-T3-24DC-PT-I	Push-in	1027586
	24 V DC	1 kA (In)	NA	TTC-6P-T3-24DC-UT-I	Screw	1027584

\* FM - Remote relay alarm output. \*\* Go to [www.phoenixcontact.com/en-au/au-lifetime-warranty](http://www.phoenixcontact.com/en-au/au-lifetime-warranty) for full details



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## Redundancy

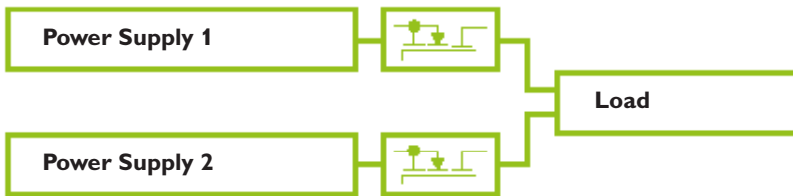
For maximum operational safety. To prevent failures and downtime of complex applications, redundant power supply solutions are necessary. Two power supplies connected in parallel can be decoupled with either active or passive redundancy modules.



█ Monitored  
█ Not Monitored

### QUINT SINGLE-ORING active redundancy module (S-ORING)

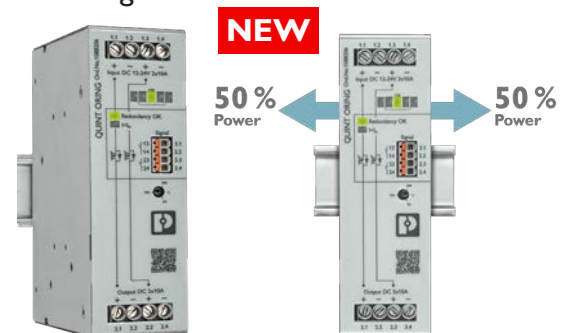
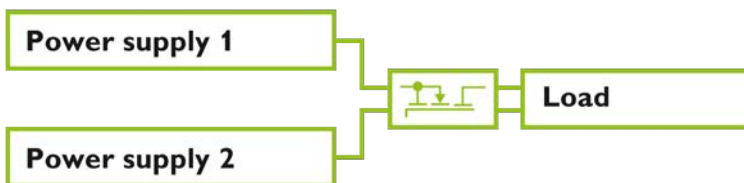
Fully monitored single channel MOSFET technology redundancy.



Nominal Input-Output Voltage	Input Current	Output Current	Description	OVP Limit	Order #	
12-24 V DC	1 x 40A	1 x 40A	QUINT4-S-ORING/12-24DC/1X40	Standard	2907752	
12-24 V DC	1 x 40A	1 x 40A	QUINT4-S-ORING/12-24DC/1X40/MP	<30 V DC	1043418	
12-24 V DC	1 x 40A	1 x 40A	QUINT4-S-ORING/12-24DC/1X40/+	<28.8 V DC	2907753	

### QUINT ORING active redundancy module with ACB Technology

Fully-monitored dual channel MOSFET technology with Auto Current Balancing - doubling the service life of your power supplies.

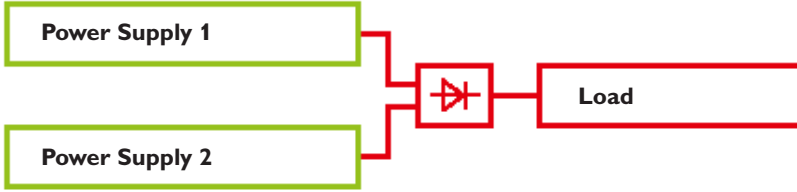


Nominal Input-Output Voltage	Input Current	Output Current	Description	Order #	
12-24 V DC	2 x 10A	2 x 10A (Redundancy) 1 x 20A (Increased Power)	QUINT4-ORING/12-24DC/2X10/2X10 <span style="color: red;">NEW</span>	1088206	
12-24 V DC	2 x 20A	2 x 20A (Redundancy) 1 x 40A (Increased Power)	QUINT4-ORING/12-24DC/2X20/2X20 <span style="color: red;">NEW</span>	1088207	
18-24 V DC	2 x 40A	2 x 40A (Redundancy) 1 x 80A (Increased Power)	QUINT-ORING/24DC/2X40/1X80	2902879	



# Redundancy

**Passive Redundancy modules: choose from QUINT, TRIO, UNO, or STEP POWER Diodes for easy decoupling.** Rugged and reliable DIODE technology from 5 to 48V DC.



Nominal Input-Output Voltage	Input Current	Output Current	Description	Order #	
12-24 V DC	2 x 20A	2 x 20A (Redundancy) 1 x 40A (Increased Power)	QUINT4-DIODE/12-24DC/2X20/1X40	2907719	
48 V DC	2 x 20A	2 x 20A (Redundancy) 1 x 40A (Increased Power)	QUINT4-DIODE/48DC/2X20/1X40	2907720	
12-24 V DC	2 x 20A	2 x 20A (Redundancy) 1 x 40A (Increased Power)	TRIO2-DIODE/12-24DC/2X20/1X40	2907379	
12-24 V DC	2 x 10A	2 x 10A (Redundancy) 1 x 20A (Increased Power)	TRIO2-DIODE/12-24DC/2X10/1X20	2907380	
5-24 V DC	2 x 10A	2 x 10A (Redundancy) 1 x 20A (Increased Power)	UNO-DIODE/5-24DC/2X10/1X20	2905489	
5-24 V DC	2 x 5A	2 x 5A (Redundancy) 1 x 10A (Increased Power)	STEP-DIODE/5-24DC/2X5/1X10	2868606	

## QUINT POWER Plus with inbuilt Active redundancy

Fully-monitored single channel MOSFET technology built into the QUINT4 Power Supply - as well as double over-voltage protection (OVP), protective coating and extreme temperature range.



**NEW**



Nominal Input-Output Voltage	Input Current	Output Current	Description	OVP Limit	Order #	
1 Phase / 230V AC	24 V DC	20A	QUINT4-PS/1AC/24DC/20/+	<30 V DC	2904617	
		10A	QUINT4-PS/1AC/24DC/10/+ <b>NEW</b>	<30 V DC	2904616	
24 V DC	24 V DC	20A	QUINT4-PS/24DC/24DC/20/SC/+	<30 V DC	1046881	

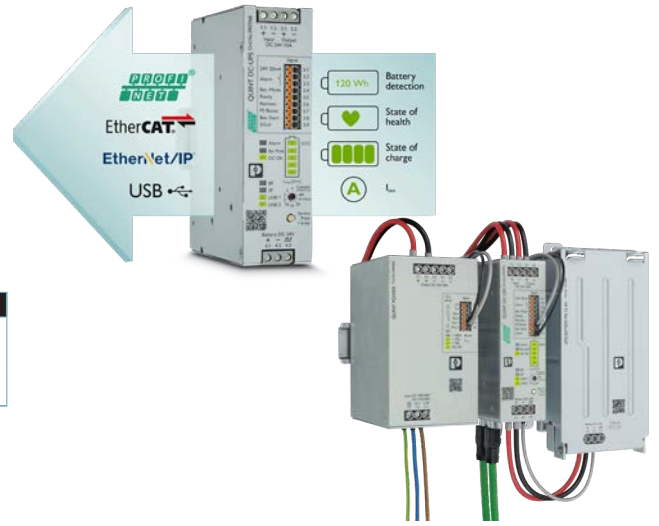
# Uninterruptible Power Supplies (UPS)

**DC power** For critical applications, uninterruptible power supplies (UPS) can provide a lifeline to keep your system up and running.

+ UPS module

Selected based on output requirements

**IQ Technology**  
Designed by PHOENIX CONTACT



DC QUINT Power Supply	
<input type="checkbox"/>	Select UPS
<input type="checkbox"/>	What input /output voltage?
<input type="checkbox"/>	What output power/current?

Comms	Input/Output/ Amps	Description	Order #
None	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/5	2906990
None	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/10	2907066
None	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20	2907071
None	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40	2907077
USB	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/5/USB	2906991
USB	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/10/USB	2907067
USB	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20/USB	2907072
USB	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40/USB	2907078
ETHERNET IP	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/5/EIP	2906994
ETHERNET IP	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/10/EIP	2907069
ETHERNET IP	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20/EIP	2907074
ETHERNET IP	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40/EIP	2907080



Comms	Input/Output/ Amps	Description	Order #
PROFINET	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/5/PN	2906993
PROFINET	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/10/PN	2907068
PROFINET	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20/PN	2907073
PROFINET	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40/PN	2907079
ETHERCAT	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/5/EC	2906996
ETHERCAT	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/10/EC	2907070
ETHERCAT	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20/EC	2907076
ETHERCAT	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40/EC	2907081

USB EtherNet/IP PROFINET EtherCAT

QUINT4 - BATTERY CHARGER			Order #
	Input/Output/Amps	Description	2907990
	230 V AC IN / 24 V DC OUT / 10A	QUINT4-CHARGER/1AC/24DC/10	<b>NEW</b>

## UPS Energy Storage Selection Guides

	UPS-BAT/PB					
W x H x D in mm	54 x 157 x 113	85 x 191 x 110	135 x 202 x 110	202 x 202 x 110	155 x 168 x 183	333 x 173 x 199
Capacity	1.2 Ah	4 Ah	7 Ah	12 Ah	20 Ah	40 Ah
Type	UPS-BAT/PB/24DC/1.2AH	UPS-BAT/PB/24DC/4AH	UPS-BAT/PB/24DC/7AH	UPS-BAT/PB/24DC/12AH	UPS-BAT/PB/24DC/20AH	UPS-BAT/PB/24DC/40AH
Order #	1274520	1274117	1274118	1274119	1348516	1354641

Buffer times for your **QUINT DC UPS** with the following PB energy storage devices:






Select your energy storage device for 24 V DC applications here. Example: 7 A is to be buffered for one hour.

QUINT4-UPS/24DC/24DC/10A and UPS-BAT/PB/24DC/12AH

Load Current	Buffer Time																								
	Seconds			Minutes							Hours														
	10	15	30	1	2	3	5	6	7	8	9	10	20	30	40	45	50	1	2	3	5	8	10	15	20
1 A																									
2 A																									
3 A																									
5 A																									
7 A																									
10 A																									
15 A																									
20 A																									
25 A																									
30 A																									
35 A																									
40 A																									

1+1: Two energy storage devices of the same capacity are required in this case. The data is based on an ambient temperature of +20°C.

# Uninterruptible Power Supplies (UPS)

	UPS-BAT/LI-ION		UPS-BAT/VRLA-WTR	
				
W x H x D in mm	135 x 202 x 110	264 x 224 x 197	172 x 177 x 178	358 x 174 x 169
<b>Capacity</b>	<b>128 Wh</b>	<b>924 Wh</b>	<b>13 Ah</b>	<b>26 Ah</b>
Type	UPS-BAT/LI/24DC/128WH	UPS-BAT/LI-ION/24DC/924WH	UPS-BAT/VRLA-WTR/24DC/13AH	UPS-BAT/VRLA-WTR/24DC/26AH
Order #	1396415	2908232	2320416	2320429

## Buffer times for your QUINT DC UPS with the following energy storage devices: LI-ION and VRLA-WTR

Select your energy storage device for 24 V DC applications here. Example: 20 A is to be buffered for 6 minutes.

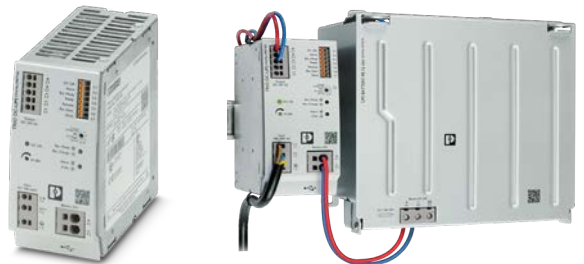
- ➔ 
- ➔ QUINT4-UPS/24DC/24DC/20A and UPS-BAT/LI-ION/24DC/128WH

Load Current	Buffer Time																								
	Seconds					Minutes					Hours														
	10	15	30	1	2	3	5	6	7	8	9	10	20	30	40	45	50	1	2	3	5	8	10	15	20
1 A																									
2 A																								1+1	1+1
3 A																							1+1	1+1	
5 A																						1+1	1+1		
7 A																						1+1	1+1		
10 A																						1+1	1+1		
15 A																						1+1	1+1		
20 A																						1+1	1+1		
25 A																						1+1	1+1		
30 A																						1+1	1+1		
35 A																						1+1	1+1		
40 A																						1+1	1+1		

1+1: Two energy storage devices of the same capacity are required in this case. The data is based on an ambient temperature of +20°C.

## DC UPS with Integrated Power Supply

	<b>Power Supply</b> AC-to-DC, DC-to-DC power supplies and UPS		<b>+ UPS Module</b> Selected based on output requirements
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Phase	Output Voltage	Output Current	Description	Applicable Battery Size	Comms	Order #
1-Phase	24 V	5A	TRIO-UPS-2G/1AC/24DC/5	1.2 to 12 Ah	USB	2907160
		10A	TRIO-UPS-2G/1AC/24DC/10	1.2 to 38 Ah	USB	2907161
3-Phase		20A	TRIO-UPS-2G/3AC/24DC/20	4 to 38 Ah	USB	2906367

## Buffer times for your TRIO DC UPS with the following PB energy storage devices:

Select your energy storage device for your TRIO DC UPS here. Example: 10 A is to be buffered for 10 minutes.

- ➔ 
- ➔ TRIO-UPS-2G/1AC/24DC/10 and UPS-BAT/PB/24DC/4AH

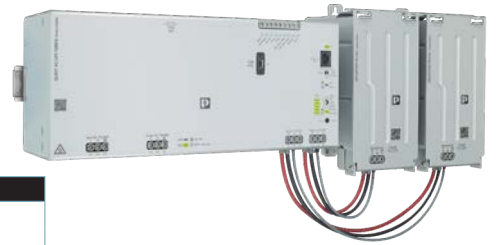
Load Current	Buffer Time																								
	Seconds					Minutes					Hours														
	10	15	30	1	2	3	5	6	7	8	9	10	20	30	40	45	50	1	2	3	5	8	10	15	20
1 A																									
2 A																									
3 A																								1+1	1+1
5 A																								1+1	1+1
7 A																							1+1	1+1	1+1
10 A																							1+1	1+1	
15 A																							1+1	1+1	
20 A																							1+1	1+1	

The data is based on an ambient temperature of +20°C.

# Uninterruptible Power Supplies (UPS)

## AC Power - 1 kVA Capacity - ONLINE UPS

Note: Can be connected in parallel for 2kVA Capacity. (See manual for details)



For use with AC QUINT power supply			
<input type="checkbox"/> Select UPS <input type="checkbox"/> What input voltage? <input type="checkbox"/> What output power/current?			
<b>QUINT UPS</b>			
QUINT IQ Technology			
State of Charge: Describes current charging state and remaining runtime			
State of Health: Provides information on the energy storage device life expectancy			
Input Voltage	Output	Description	Order #
120 V AC/230 V AC	120 V AC/230 V AC - 1 kV A	QUINT4-UPS/1 AC/1 AC/1 kV A	2320283
+			
<input type="checkbox"/> What type of energy-storage device: VRLA, CAP, or LI-ION? How much current does the battery need to supply the system and for how long? See chart below.			
<b>Energy-storage type</b>			
<b>VRLA</b>			



	UPS-BAT/PB					
W x H x D in mm	85 x 191 x 110	135 x 202 x 110	202 x 202 x 110	155 x 168 x 183	333 x 173 x 199	
Capacity	4 Ah	7 Ah	12 Ah	20 Ah	40 Ah	
Type	UPS-BAT/PB/ 24DC/4AH	UPS-BAT/PB/ 24DC/7AH	UPS-BAT/PB/ 24DC/12AH	UPS-BAT/PB/ 24DC/20AH	UPS-BAT/PB/ 24DC/40AH	
Order #	1274117	1274118	1274119	1348516	1354641	

Buffer times for your QUINT AC UPS/1KVA with the following PB energy storage devices:

Select your energy storage device for your QUINT AC UPS/1KVA (120 / 230 V application) here. Example: 400 W needs to be buffered for 50 minutes:

➔ 1+1

➔ QUINT4-UPS/1AC/1AC/1KVA and 2 x UPS-BAT/PB/24DC/12AH

Performance	Buffer Time																			
	Minutes										Hours									
	2	3	4	5	8	10	15	20	25	30	40	50	1	1.5	2	3	4	6	9	10
100 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
200 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
300 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
400 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
500 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
600 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
700 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
800 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
900 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1

1+1: For the QUINT AC UPS/1KVA, two energy storage devices of the same capacity are always required. The data is based on an ambient temperature of +20°C.

	UPS-BAT/LI-ION		UPS-BAT/VRLA-WTR	
W x H x D in mm	135 x 202 x 110	264 x 224 x 197	172 x 177 x 178	358 x 174 x 169
Capacity	128 Wh	924 Wh	13 Ah	26 Ah
Type	UPS-BAT/LI-ION/ 24DC/128WH	UPS-BAT/LI-ION/ 24DC/924WH	UPS-BAT/VRLA-WTR/ 24DC/13AH	UPS-BAT/VRLA-WTR/ 24DC/26AH
Order #	2320351	2908232	2320416	2320429

Buffer times for your QUINT AC UPS/1KVA with the following energy storage devices: LI-ION and VRLA-WTR

Select your energy storage device for your QUINT AC UPS/1KVA (120 / 230 V application) here. Example: 400 W is to be buffered for three hours.

➔ 1+1

➔ QUINT4-UPS/1AC/1AC/1KVA and 2 x UPS-BAT/LI-ION/24DC/924WH

Performance	Buffer Time																			
	Minutes										Hours									
	2	3	4	5	8	10	15	20	25	30	40	50	1	1.5	2	3	4	6	9	10
100 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
200 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
300 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
400 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
500 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
600 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
700 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
800 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1
900 W	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1	1+1

1+1: For the QUINT AC UPS/1KVA, two energy storage devices of the same capacity are always required. The data is based on an ambient temperature of +20°C.

# Uninterruptible Power Supplies (UPS)

## AC Power - 500 VA Capacity - OFFLINE UPS

**For use with AC QUINT Power Supply**

Select UPS

What input voltage?

What output power/current?

**QUINT UPS**

QUINT IQ Technology  
**State of Charge:** Describes current charging state and remaining runtime  
**State of Health:** Provides information on the energy-storage device life expectancy

Input Voltage	Output	Description	Order #
120 V AC/230 V AC	120 V AC/230 V AC - 400 W/500 V A	QUINT4-UPS/1AC/1AC/500VA/USB	1067327

+

What type of energy storage-device: VRLA, CAP, or LI-ION?

How much current does the battery need to supply the system and for how long? See chart below.

**Energy-Storage Type**

VRLA



UPS-BAT/PB					
W x H x D in mm	85 x 191 x 110	135 x 202 x 110	202 x 202 x 110	155 x 168 x 183	333 x 173 x 199
Capacity	4 Ah	7 Ah	12 Ah	20 Ah	40 Ah
Type	UPS-BAT/PB/24DC/4AH	UPS-BAT/PB/24DC/7AH	UPS-BAT/PB/24DC/12AH	UPS-BAT/PB/24DC/20AH	UPS-BAT/PB/24DC/40AH
Order #	1274117	1274118	1274119	1348516	1354641

Buffer times for your QUINT AC UPS/500VA with the following PB energy storage devices:

Select your energy storage device for your QUINT AC UPS/500VA (120 / 230 V application) here. Example: 125 is to be buffered for one hour.

Performance	Buffer Time																								
	Seconds								Minutes							Hours									
	0.2	0.4	2	8	15	20	40	1	2	3	5	10	20	30	40	45	50	1	2	3	5	8	10	15	20
15 W																									
35 W																									1+1
55 W																									1+1
90 W																									1+1
125 W																									1+1
180 W																									1+1
275 W																									1+1

→ ■ QUINT4-UPS/1AC/1AC/500VA/USB and UPS-BAT/VR-LA/24DC/20AH

1+1: Two energy storage devices of the same capacity are required in this case. The data is based on an ambient temperature of +20°C.

UPS-BAT/LI-ION		UPS-BAT/VRLA-WTR			
W x H x D in mm	135 x 202 x 110	264 x 224 x 197	172 x 177 x 178	358 x 174 x 169	
Capacity	128 Wh	924 Wh	13 Ah	26 Ah	
Type	UPS-BAT/LI-ION/24DC/128WH	UPS-BAT/LI-ION/24DC/924WH	UPS-BAT/VRLA-WTR/24DC/13AH	UPS-BAT/VRLA-WTR/24DC/26AH	
Order #	2320351	2908232	2320416	2320429	

Buffer times for your QUINT AC UPS/500VA with the following energy storage devices: LI-ION, and VRLA-WTR

Select your energy storage device for your QUINT AC UPS/500VA (120 / 230 V application) here. Example: 125 W is to be buffered for one hour.

Performance	Buffer Time																								
	Seconds								Minutes							Hours									
	0.2	0.4	2	8	15	20	40	1	2	3	5	10	20	30	40	45	50	1	2	3	5	8	10	15	20
15 W																									
35 W																									1+1
55 W																									1+1
90 W																									1+1
125 W																									1+1
180 W																									1+1
275 W																									1+1
400 W																									1+1

→ ■ QUINT4-UPS/1AC/1AC/500VA/USB and UPS-BAT/VR-LA-WTR/24DC/26AH

1+1: Two energy storage devices of the same capacity are required in this case. The data is based on an ambient temperature of +20°C.

# Surge Protection - Power

FLT-SEC Series



NEW - VAL-MS PT



VAL-MS 100kA Series



PLT-SEC-T3 Series



Network Type		AS/NZS 1768 Category					Surge Protection Device		Relay Alarm Output	Order #	Availability Guarantee
	Voltage	C	B	A	+ FUSE	Description	Features				
3-Phase  TN-S / TT	230V / 400V	✓	✓			FLT-SEC-P-T1-3S-264/50-FM	limp = 50kA	✓	2909589		
		✓	✓		✓	FLT-SEC-H-T1-3C-264/25-FM	Inbuilt SPD Fuse	✓	2905871		
						(+ FLT-SEC-P-T1-N/PE-350/100-FM)	ADD N-E SPD Module	✓	2905472		
		✓	✓			FLT-SEC-P-T1-3S-350/25-FM	limp = 25kA / Imax = 100kA	✓	2905421		
		✓	✓			FLT-SEC-T1+T2-3S-350/25-FM	T1 and T2 Special SPD	✓	2905470		
		✓	✓			VAL-MS-3+1-100-320-A	Imax = 100kA	✓	1274064		
		✓	✓			VAL-ME-3+1-100-275-A	Imax = 100kA	✓	1106017		
		✓	✓	✓		VAL-MS-3+1-50-275-A	Imax = 50kA	✓	1105734		
		✓	✓	✓		VAL-SEC-T2-3S-350-FM	Imax = 40kA / Small Size	✓	2905340	★	
		✓	✓	✓		VAL-MS 230/3+1 FM-PT	Imax = 40kA / Push-in	✓	1248960	★	
		✓	✓	✓	VAL-MS 230/3+1	Imax = 40kA / Low Price		2838209			
3-Phase  TN-C	230V / 400V	✓	✓			FLT-SEC-P-T1-3C-264/50-FM	limp = 50kA	✓	2907390		
		✓	✓		✓	FLT-SEC-H-T1-3C-264/25-FM	Inbuilt SPD Fuse	✓	2905871		
		✓	✓			FLT-SEC-P-T1-3C-350/25-FM	limp = 25kA / Imax = 100kA	✓	2905419		
		✓	✓			FLT-SEC-T1+T2-3C-350/25-FM	T1 and T2 Special SPD		2905469		
		✓	✓			VAL-MS-3-100-320-A	Imax = 100kA	✓	1274066	★	
		✓	✓	✓		VAL-MS-3-50-275-A	Imax = 50kA	✓	1105739	★	
		✓	✓	✓		VAL-SEC-T2-3C-350-FM	Imax = 40kA / Small Size	✓	2905339		
		✓	✓	✓	VAL-MS 320/3+0	Imax = 40kA / Low Price		2920230			
1-Phase  TN-S / TT	230V	✓	✓			FLT-SEC-P-T1-1S-264/50-FM	limp = 50kA	✓	2907388		
		✓	✓		✓	FLT-SEC-H-T1-1C-264/25-FM	Inbuilt SPD Fuse	✓	2801615		
						(+ FLT-SEC-P-T1-N/PE-350/100-FM)	ADD N-E SPD Module	✓	2905472		
		✓	✓			FLT-SEC-P-T1-1S-350/25-FM	limp = 25kA / Imax = 100kA		2905415		
		✓	✓			FLT-SEC-T1+T2-1S-350/25-FM	T1 and T2 Special SPD		2905466		
		✓	✓			VAL-MS-1+1-100-320-A	Imax = 100kA	✓	1274067	★	
		✓	✓	✓		VAL-MS-1+1-50-275-A	Imax = 50kA		1105737	★	
		✓	✓	✓		VAL-SEC-T2-1S-350-FM	Imax = 40kA / Small Size	✓	2905341		
		✓	✓	✓		VAL-MS 230/1+1	Imax = 40kA / Low Price		2804429		
				✓	✓		PLT-SEC-T3-230-FM-PT	Push-in Terminals	✓	2907928	★
		✓	✓		PLT-SEC-T3-230-FM-UT	Screw Terminals	✓	2907919	★		
				✓	SFP 1-20/230AC	EMC Filter plus Surge Protection	✓	2859987			
1-Phase  TN-C	230V	✓				FLT-SEC-P-T1-1C-264/50-FM	limp = 50kA	✓	2907387		
		✓	✓		✓	FLT-SEC-H-T1-1C-264/25-FM	Inbuilt SPD FUSE	✓	2801615		
		✓	✓			FLT-SEC-P-T1-1C-350/25-FM	Imax = 100kA	✓	2905414		
		✓	✓			FLT-SEC-T1+T2-1C-350/25-FM	Special T1 & T2	✓	2905465		
		✓	✓			VAL-MS-1-100-320-A	Imax = 100kA	✓	1274072	★	
		✓	✓	✓		VAL-MS-1-50-275-A	Imax = 50kA	✓	1105740	★	
		✓	✓	✓	VAL-MS 230	Imax = 40kA / Low Price	✓	2839127			
DC	24VDC +/-GND			✓		PLT-SEC-T3-24-FM-PT	Push-in 26A	✓	2907925	★	
				✓		PLT-SEC-T3-24-FM-UT	Screw-in 26A	✓	2907916	★	
				✓		TTC-6P-T3-24DC-PT-I	Push-in 6A	OPT.	1027586		
				✓		TTC-6P-T3-24DC-UT-I	Screw-in 6A	OPT.	1027584		



ImpulseCheck - Surge Transient measurement and SPD remote monitoring device				
IPCH-4X-PCL-TCP-24DC-UT	Surge Measure and Record	✓	1045379	
Sensor - IPCH-SC-1.5	1.5M Sensor for ImpulseCheck		1045379	
Sensor - IPCH-SC-3.0	3.0M Sensor for ImpulseCheck		1069191	

# Surge Protection: Measurement, Control, and Regulation (MCR)

Hint: Try our MCR configurator online - go to [www.phoenixcontact.com.au](http://www.phoenixcontact.com.au) and search #1389

Signal	Connection	Voltage	Type	Width (mm)	Ground	Design	Monitoring	Description	Order #	Plugtrab (PT-IQ)
<p><b>What type of signal? Floating (e.g., Analogue 4-20mA / 0-10V), Common Ground (e.g., Digital), Antenna, or Data</b></p> <p><b>Do you require a Push-in, Screw, RJ45, or D-Sub (9 pin) connection?</b></p> <p><b>What is the Voltage or Frequency - Data Rate you require?</b></p> <p><b>What width do you require?</b></p> <p><b>Do you need a Direct or Floating (Indirect) Ground?</b></p> <p><b>Pluggable or Non-Pluggable SPD?</b></p> <p><b>Do you require SPD monitoring? None, Local, or Remote (Single or Dual Stage)?</b></p> <p><b>Resulting Phoenix Contact part number</b></p>										
<b>Plugtrab (PT-IQ)</b>										
MASTER (Mandatory)	Screw	20-30 VDC	MASTER	17.7mm	N/A	Pluggable	Remote 2 Stage	PT-IQ-PTB-UT	2800768	
	Push-in			17.7mm		Pluggable	Remote 2 Stage	PT-IQ-PTB-PT	2801296	
Floating (Analogue/ Loop, etc.)	Screw	12 VDC	2X2	17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-2X2+F-12DC-UT	2800985	
		24 VDC		17.7mm	Direct	Pluggable	Remote 2 Stage	PT-IQ-2X2-24DC-UT	2800980	
		24 VDC		17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-2X2+F-24DC-UT	2801264	
		48 VDC		17.7mm	Direct	Pluggable	Remote 2 Stage	PT-IQ-2X2-48DC-UT	2800986	
	Push-in	5 VDC	2X2	17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-2X2+F-5DC-PT	2801260	
		24 VDC		17.7mm	Direct	Pluggable	Remote 2 Stage	PT-IQ-2X2-24DC-PT	2801263	
		24 VDC		17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-2X2+F-24DC-PT	2801263	
		48 VDC		17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-2X2+F-48DC-PT	2801266	
Common Ground (Digital)	Screw	24 VDC	2X1	17.7mm	Direct	Pluggable	Remote 2 Stage	PT-IQ-2X1-24DC-UT	2800787	
		24 VDC	4X1	17.7mm	Direct	Pluggable	Remote 2 Stage	PT-IQ-4X1-24DC-UT	2800982	
		24 VDC		17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-4X1+F-24DC-UT	2800983	
		48 VDC	17.7mm	Direct	Pluggable	Remote 2 Stage	PT-IQ-4X1-48DC-UT	2801219		
	Push-in	24 VDC	2X1	17.7mm	Direct	Pluggable	Remote 2 Stage	PT-IQ-2X1-24DC-PT	2801247	
		24 VDC	4X1	17.7mm	Direct	Pluggable	Remote 2 Stage	PT-IQ-4X1-24DC-PT	2801271	
		24 VDC		17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-4X1+F-24DC-PT	2801272	
		48 VDC	17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-4X1+F-48DC-PT	2801274		
Data	Screw	5 VDC	5-HF	17.7mm	Direct	Pluggable	Remote 2 Stage	PT-IQ-5-HF-5DC-UT	2800797	
		12 VDC	5-HF	17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-5-HF+F-12DC-UT	2800801	
	Push-in	12 VDC	3-HF	17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-3-HF+F-12DC-PT	2801289	
		12 VDC	5-HF	17.7mm	Direct	Pluggable	Remote 2 Stage	PT-IQ-5-HF-12DC-PT	2801293	
12 VDC	5-HF	17.7mm	Floating	Pluggable	Remote 2 Stage	PT-IQ-5-HF+F-12DC-PT	2801295			
<b>TERMITRAB Complete (TTC)</b>										
Signal	Connection	Voltage	Type	Width	Ground	Design	Monitoring	Description	Order #	TERMITRAB Complete (TTC)
Optional Remote Signalling Set	Screw	10-36 VDC	FMRS	6.2mm x 2	Direct	NA	Remote Relay	TTC-6-FMRS-UT	2907811	
	Push-in			6.2mm x 2		NA	Remote Relay	TTC-6-FMRS-PT	2907811	
Floating (Analogue/ Loop, etc.)	Screw	12 VDC	1X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-1X2-12DC-UT-I	2908192	
		24 VDC	1X2	6.2mm	Direct	Non-Pluggable	None	TTC-6-1X2-24DC-UT	2906798	
		24 VDC	1X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-1X2-24DC-UT-I	2906809	
		24 VDC	1X2	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-1X2-F-24DC-UT-I	1065317	
	Push-in	48 VDC	1X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-1X2-48DC-UT-I	2908194	
		5 VDC	3	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-3-5DC-PT-I	1061385	
		12 VDC	1X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-1X2-12DC-PT-I	2908193	
		24 VDC	1X2	3mm	Direct	Non-Pluggable	None	TTC-3-1X2-24DC-PT	2907325	
Common Ground (Digital)	Screw	24 VDC	1X2	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-1X2-F-24DC-PT-I	1065318	
		24VDC	2X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-2X2-24-PT-I	<b>NEW</b> 1334595	
		48 VDC	1X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-1X2-48DC-PT-I	2908195	
		12 VDC	2X1	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-2X1-12DC-UT-I	2908201	
	Push-in	24 VDC	2X1	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-2X1-24DC-UT-I	2906810	
		24 VDC	2X1	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-2X1-F-24DC-UT-I	1065319	
		48 VDC	2X1	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-2X1-F-48DC-UT-I	2908208	
		24 VDC	2X1	3mm	Direct	Non-Pluggable	None	TTC-3-2X1-24DC-PT	2907326	
Data (1 Mbps)	Screw	24 VDC	2X1	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-2X1-F-M-24DC-PT-I	2906794	
		24 VDC	4X1	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-4X1-24-PT-I	<b>NEW</b> 1334594	
	Push-in	48 VDC	2X1	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-2X1-48DC-PT-I	2908204	
		12 VDC	HF	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-3-HF-M-12DC-UT-I	2906744	
High Current	Screw	24 VDC	HC	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-3-HF-F-M-12DC-UT-I	2906786	
	Push-in	12 VDC	HF	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-3-HF-M-24DC-PT-I	2906756	
Add-on Fuse Holder	Screw	12 VDC	HF	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-3-HF-F-M-24DC-PT-I	2906797	
		24 VDC	HC	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-2-HC-M-24DC-UT-I	2906743	
60 VDC	6.3A max	6.2mm	N/A	5x20mm Fuse	N/A	TTC-6-FC-UT	1054762			
<b>Coaxial Surge Protection (CN)</b>										
Signal	Connection	Voltage	Frequency	Current	Ground	Design	Monitoring	Description	Order #	Coaxial (CN)
Coaxial	N-Connector Socket - Socket	70 VDC	6dB	10A	Direct	Non-replaceable	None	CN-UB-70DC-6-BB	2803166	
		280 VDC	3dB	5A	Direct	Replaceable GDT	None	CN-UB-280DC-3-BB	2801050	
		<55 Vp	380-470 MHz	5A	Direct	Non-replaceable	None	CN-LAMBDA/4-0.47-BB	2800021	
		<18 Vp	0.8-2.25 GHz	5A	Direct	Non-replaceable	None	CN-LAMBDA/4-2.25-BB	2801057	
		<11 Vp	2.4-7.6 GHz	5A	Direct	Non-replaceable	None	CN-LAMBDA/4-5.9-BB	2838490	
<b>DATA / Communication Surge Protection (DT)</b>										
Signal	Connection	Voltage	Current	Ground	Design	Monitoring	Description	Order #	Data (DT)	
CAT6+ / 10 Gbps	RJ45	<3.3 VDC / 60 VDC PoE++	1.5A	Direct	Non-replaceable	None	DT-LAN-CAT.6+	2881007		
CAT 5-6 / 1 Gbps	RJ45	<5 VDC / 57 VDC PoE+	1.5A	Direct	Non-replaceable	None	D-LAN-CAT.5-HC	2800763		
VDSL & Analogue / 50 Mbps	RJ45/12/11 & Screw	185 VDC / 130 VAC	380mA	Direct	Non-replaceable	None	DT-TELE-RJ45	2882925		
RS-485	D-SUB (9 Pin)	12 VDC	380mA	Direct	Non-replaceable	None	DT-UB-485/BS	2920612		
RS-485	Push-in	12 VDC	600mA	Floating	Pluggable	Local (Flag)	TTC-6P-3-HF-F-M-24DC-PT-I	2906797		
RS-485	Screw	12 VDC	600mA	Floating	Non-Pluggable	Local (Flag)	TTC-6-3-HF-F-M-12DC-UT-I	2906769		

# Circuit Breakers: Industrial and Device

## Thermal-magnetic miniature circuit breakers (MCBs)

(For AC and DC industrial use only)

■ Do you require 7.5kA or 10kA SSC Rating?						
■ How many poles are required?						
■ What trip-curve characteristic is required?						
■ What current rating is required?						
■ Resulting Phoenix Contact part number						
<b>TMC 7 Series: Thermal-Magnetic Industrial Miniature Circuit Breakers (MCB's)</b>						
SSC	# of poles	Trip curve	Current rating	Type description	Order #	
7.5kA	1	B	10A	TMC 71B 10A	1019916	
			20A	TMC 71B 20A	1019921	
			32A	TMC 71B 32A	1019924	
			C	1A	TMC 71C 01A	1019972
				6A	TMC 71C 06A	1019977
				10A	TMC 71C 10A	1019980
		16A		TMC 71C 16A	1019984	
		20A		TMC 71C 20A	1019985	
		32A		TMC 71C 32A	1019988	
		D	40A	TMC 71C 40A	1019989	
			50A	TMC 71C 50A	1019990	
			63A	TMC 71C 63A	1019992	
	10A		TMC 71D 10A	1020045		
			20A	TMC 71D 20A	1020052	
			32A	TMC 71D 32A	1020055	
	50A		TMC 71D 50A	1020057		
			63A	TMC 71D 63A	1020059	
			6A	TMC 72C 06A	1019999	
	10A	TMC 72C 10A		1020002		
	3	C		10A	TMC 73C 10A	1020023
			20A	TMC 73C 20A	1020028	
32A			TMC 73C 32A	1020031		
D		50A	TMC 73C 50A	1020033		
		63A	TMC 73C 63A	1020036		
		20A	TMC 73D 20A	1020097		
32A	TMC 73D 32A	1020100				
10kA	1,2,3	B,C,D	1-63A	TMC 8XX XXA	Contact Sales	

Full range of accessories available - BUSBARS, AUX CONTACT, ALARM CONTACT, SHUNT TRIPS, LOCK-OUTS etc.



# Electronic Circuit Breakers (ECBs)

## (For 24V DC device use)

Electronic Circuit Breakers Module (CBM)				
Channels	Amp	Function	Description	Order #
4	0.5-10A	Full feature/function model	CBM E4 24DC/0.5-10A NO-R	2905743
8	0.5-10A	Full feature/function model	CBM E8 24DC/0.5-10A NO-R	2905744
Electronic Circuit Breakers Module Compact (CBMC)				
Channels	Amp	Function	Description	Order #
4	1-4A	Remote reset version	CBMC E4 24DC/1-4A S-R*	1065727
4	1-10A	Remote reset version	CBMC E4 24DC/1-10A S-R	1065729
4	1-4A	Status output version	CBMC E4 24DC/1-4A NO*	2906031
4	1-10A	Status output version	CBMC E4 24DC/1-10A NO	2906032
4	1-4A	I/O link version	CBMC E4 24DC/1-4A+ IOL*	2910410
4	1-10A	I/O link version	CBMC E4 24DC/1-10A IOL	2910411
4	1-8A	Galvanically isolated version	CBMC EG4 24DC/1-8A NO	1065730

Single Channel Electronic Circuit Breakers (PTCB)					
Amp	Adjustable	Description	Order #	Status Output	Reset Input
1-4A	✓	PTCB E1 24DC/1-4A SI-R	1135753		
1-8A	✓	PTCB E1 24DC/1-8A SI-R	1135752	✓	✓
1A		PTCB E1 24DC/1A SI-R	1135751	✓	✓
2A		PTCB E1 24DC/2A SI-R	1135749	✓	✓
4A		PTCB E1 24DC/4A SI-R	1135745	✓	✓
6A		PTCB E1 24DC/6A SI-R	1135740	✓	✓
8A		PTCB E1 24DC/8A SI-R	1135734	✓	✓
1-3A	✓	PTCB E1 24DC/1-3A NO	2909909	✓	
1-4A	✓	PTCB E1 24DC/1-4A NO	2908261	✓	
1-8A	✓	PTCB E1 24DC/1-8A NO	2908262	✓	
1A		PTCB E1 24DC/1A NO	2909902	✓	
2A		PTCB E1 24DC/2A NO	2909903	✓	
3A		PTCB E1 24DC/3A NO	2909904	✓	
4A		PTCB E1 24DC/4A NO	2909906	✓	
6A		PTCB E1 24DC/6A NO	2909908	✓	
8A		PTCB E1 24DC/8A NO	2909910	✓	





# CAPAROC: Modular Electronic Circuit Breaker System

(For 12V and 24V device use)



Power Modules



Current Rails and Extensions



4 Channel

2 Channel



PD 0V

1 Channel

■ Choose your required power module - Basic, IO-LINK, or Profinet Comms				
■ Select your length of current rails for the DIN mounting (based on 6.2mm = 1 slot wide)				
■ What circuit breaker modules do you require - 4 channel, 2 channel, or 1 channel?				
■ Do you want a 0V DC distribution module?				
■ Resulting Phoenix Contact part number				
<b>CAPAROC Power Module (Mandatory Item)</b>				
Comms	Voltage	Width	Description	Order #
Basic	12 - 24 VDC	2 slots	CAPAROC PM S-R	1115661
IO-LINK			CAPAROC PM IOL	1110986
Profinet		4 slots	CAPAROC PM PN	1110986

CAPAROC Current Rails (TOTAL CURRENT = 45A) (Mandatory Item)						
Size	Voltage	Width		Type	Description	Order #
CR8	12 - 24 VDC	8 Slots	49.6mm	Standard	CAPAROC CR 8	1115672
CR20		20 Slots	124mm	Standard	CAPAROC CR 20	1110989
CR4-EXT		4 Slots	24.8mm	Extension	CAPAROC CR EXT4	1110991
CR8-EXT		8 Slots	49.6mm	Extension	CAPAROC CR EXT8	1110990
CR20-EXT		20 Slots	124mm	Extension	CAPAROC CR EXT20	1115674
CR-CON		N/A	N/A	Connector	CAPAROC CR CON	1270955

CAPAROC Electronic Circuit Breaker Modules					
Channels	Current Rating	Voltage	Width	Description	Order #
4	1-10A	12 - 24 VDC	2 Slots	CAPAROC E4 12-24DC/1-10A	1115658
4	1-4A		2 Slots	CAPAROC E4 12-24DC/1-4A	1115657
2	2-10A		2 Slots	CAPAROC E2 12-24DC/2-10A	1110984
2	1-4A		2 Slots	CAPAROC E2 12-24DC/1-4A	1115655
1	1-10A		1 Slot	CAPAROC E1 12-24DC/1-10A	1115649
1	1-4A		1 Slot	CAPAROC E1 12-24DC/1-4A	1115415
1	10A		1 Slot	CAPAROC E1 12-24DC/10A	1157284
1	8A		1 Slot	CAPAROC E1 12-24DC/8A	1157279
1	6A		1 Slot	CAPAROC E1 12-24DC/6A	1157286
1	4A		1 Slot	CAPAROC E1 12-24DC/4A	1157285
1	2A		1 Slot	CAPAROC E1 12-24DC/2A	1157290
1	1A		1 Slot	CAPAROC E1 12-24DC/1A	1157288

CAPAROC 0 VDC Distribution Module				
Module	Voltage	Width	Description	Order #
Distribution	12 - 24 VDC	1 Slot	CAPAROC PD 0V	1110987

# Modular Terminal Blocks

CLIPLINE complete: all connection methods – one system

Complete flexibility: terminal blocks with different connection technologies can be freely combined

Cost savings, thanks to uniform bridging, marking, and test accessories



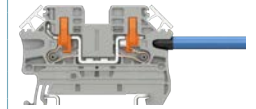
■ What connection style best fits your application?	■ Will you be bridging terminals?
■ What wire size are you using? What is your current (Amps) requirement?	■ Resulting Phoenix Contact part number
■ How many connection points?	■ What accessories are needed?
■ How many end covers are needed?	

Push-in (PT)														
mm <sup>2</sup>	I <sub>max</sub>	Connections	Description	Order #	Cover	Bridge (2-Position)	Marking							
							Thermomark Card/ Prime		Bluemark ID					
							Side	Top	Side	Top				
1.5	15	2	PT 1.5/S	3208100	3208142	3213014 FBS 2-3,5	0829486	0829484	0829486	0829484				
	-		PT 1.5/S PE	3208139			UCT-TMF 3.5	UCT-TM 3.5	UCT-TMF 3.5	UCT-TM 3.5				
	15	3	PT 1.5/S-TWIN	3208155	3208184									
	15	4	PT 1.5/S-QUATTRO	3208197	3208375									
2.5	20	2	PT 2.5	3209510	3030417	3030161 FBS 2-5	0828744 UCT-TMF 5	0828734 UCT-TM 5	0818108 UCT-TMF 5	0818108 UC-TM 5				
	-		PT 2.5-PE	3209536										
	20	3	PT 2.5-TWIN	3209549	3030488									
	20	4	PT 2.5-QUATTRO	3209578	3030514									
	20		PTTB 2.5	3210567	3211634									
	-		PTTB 2.5-PE	3210596										
30	2		PT 4	3211757		3030420	0828746 UCT-TMF 6	0828736 UCT-TM 6	0828740 UCT-TMF 6	0818085 UC-TM 6				
-		PT 4-PE	3211766											
6.3	4	PT 4-HESI (5X20 FUSE)	3211861											
6.3		PT 4-HESILED 24 (5X20 FUSE)	3211903											
30	3	PT 4-TWIN	3211771	3208977										
30	4	PT 4-QUATTRO	3211797	3208979										
28		PTTB 4	3211786											
-		PTTB 4-PE	3211854		3030462									



- Simple push-in spring ideal for solid and ferruled wires
- Tool-free termination
- 50 percent lower insertion force
- Orange pushbutton permits easy conductor release using any type of tool, without direct contact with live parts
- Uniformed Push-in Technology available on thousands of Phoenix Contact parts

Push-In Vertical (PTV)								
mm <sup>2</sup>	I <sub>Nom</sub>	Connections	Description	Order #	End Cover	Bridge (2-Position)	Marking	
							Thermomark Card/ Prime	Bluemark ID
2.5	24A	2	PTV 2,5	1078960	1088746	3030161 FBS 2-5	0828734 UCT-TM 5	0818108 UC-TM 5
	-		PTV 2,5 BU	1078962				
	-		PTV 2,5-PE	1078963				
	20A	3	PTVC 2,5-MT	1079059	1079914	N/A		
	-		PTVC 2,5-TG	1079061				
	24A		PTV 2,5-TWIN	1078966	1088747	3030161 FBS 2-5		
	-		PTV 2,5-TWIN BU	1078971				
	-	PTV 2,5-TWIN-PE	1078991					
	24A	4	PTV 2,5-QUATTRO	1078999	1088748			
	-		PTV 2,5-QUATTRO BU	1079006				
20A	PTV 2,5-QUATTRO-PE		1079012	-				
4	32A	2	PTV 4	1088728	1088746	3030336 FBS 2-6	0828736 UCT-TM 6	0818085 UC-TM 6
	-		PTV 4 BU	1088729				
	20A	3	PTV 4-PE	1088730	1079918			
	-		PTV 4-MT	1088739				
	-		PTV 4-TG	1088741				
	6.3A		PTV 4-HESI (5x20)	1088742				
	32A	4	PTV 4-HESILED 24 (5X20)	1088743	1088748			
	-		PTV 4-HESILA 250 (5x20)	1088745				
	32A		PTV 4-TWIN	1088731				
	32A		PTV 4-TWIN BU	1088732	1088747			
32A	4	PTV 4-TWIN-PE	1088733					
-		PTV 4-QUATTRO	1088734					
-	PTV 4-QUATTRO BU	1088735	1088748					
-	PTV 4-QUATTRO-PE	1088736						



- Easy and tool-free wiring of conductors with ferrules or solid conductors
- Compact design and front connection enable wiring in a confined space




Double Level Terminal Block								
mm <sup>2</sup>	I <sub>Nom</sub>	Connections	Description	Order #	End Cover	Bridge (2-Position)	Marking	
							Thermomark Card/ Prime	Bluemark ID
2.5	22A	4	PTTBV 2,5	1079073	1083611	3030161 FBS 2-5	0828734 UCT-TM 5	0818108 UC-TM 5
	20A		PTTBV 2,5/U-OG/O-GN	1088773				
	22A		PTTBV 2,5 BU	1079074				
	-		PTTBV 2,5-PE	1079076				
4	28A	4	PTTBV 4	1088737	1083611	3030336 FBS 2-6	0828736 UCT-TM 6	0818085 UC-TM 6
	-		PTTBV 4 BU	1088738				
	-		PTTBV 4-PE	1088774				




# Modular Terminal Blocks

■ What connection style best fits your application?	■ Will you be bridging terminals?
■ What wire size are you using? What is your current (Amps) requirement?	■ Resulting Phoenix Contact part number
■ How many connection points?	■ What accessories are needed?
■ How many end covers are needed?	

PT Power High-Current									
mm²	I (nom)	Connections	Description	Order #	End Cover	Bridge (2-Position)	Marking		Image
							Thermomark Card/Prime	Bluemark ID	
35	125A	2	PTPOWER 35	3212064	N/A	3005963 FBS 2-16			 <ul style="list-style-type: none"> <li>• More easily identifiable connection and conductor marking thanks to lateral conductor routing</li> <li>• Time-saving conductor connection with tool-free push-in direct connection technology</li> </ul>
			PTPOWER 35 BU	3212065					
	-	6	PTPOWER 35-3L	3212068					
	8	PTPOWER 35-3L/N	3212069						
50	150A	2	PTPOWER 50	3260050		3260067 EB 2-20/PT	0829142 UCT-TM 10	0818069 UC-TM 10	
			PTPOWER 50 BU	3260051					
	-	6	PTPOWER 50-3L	3260052					
	8	PTPOWER 50-3L/N	3260054						
95	232A	2	PTPOWER 95	3260100		3260157 EB 2-25/PT			
			PTPOWER 95 BU	3260103					
	-	6	PTPOWER 95-3L	3260106					
	8	PTPOWER 95-3L/N	3260112						
185	309A	2	PTPOWER 185	1054722	3215057 EB 2-31/PT				
			PTPOWER 185 BU	1054723					
	-	6	PTPOWER 185-3L	1054728					
	8	PTPOWER 185-3L/N	1054729						


Screw Clamp (UT)												
mm²	I (nom)	Connections	Description	Order #	End Cover	Bridge (2-Position)	Thermomark Card/Prime	Bluemark ID	Image			
										2.5	20	2
-	3	UT 2.5-PE	3044092	3047141								
20	4	UT 2.5-TWIN	3044513	3047170								
20	4	UT 2.5-QUATTRO	3044542	3047170								
20	4	UTTB 2.5	3044636	3047293								
-	6	UTTB 2.5-PE	3044665	3047293								
20	6	UT 2.5-3L	3214259	3214314								
-	6	UT 2.5-3PE	3214275	3214314								
4	30	2	UT 4	3044102	3047028	3030336 FBS 2-6	0828736 UCT-TM 6	0818085 UC-TM 6				
	-	2	UT 4-PE	3044128	-							
	6.3	2	UT 4-HESI (5X20 FUSE)	3046032	-							
	6.3	2	UT 4-HESILED 24 (5X20 FUSE)	3046090	-							
	30	3	UT 4-TWIN	3044364	3047141							
	30	3	UT 4-QUATTRO	3044571	3047170							
6	30	4	UTTB 4	3044814	3047293	3030284 FBS 2-8	0828740 UCT-TM 8	0818072 UC-TM 8				
	-	4	UTTB 4-PE	3044759	3047293							
	50	2	UT 6	3044131	3047028							
	-	2	UT6-PE	3044157	3047028							


Bolt Connection (RT)									
mm²	I (nom)	Connections	Description	Order #	End Cover	Bridge (2-Position)	Thermomark Card/Prime	Bluemark ID	Image
2.5	24	2	RT-3	3049013	3049097	3030336 FBS 2-6	0828740 UCT-TM 8	0818072 UC-TM 8	 <ul style="list-style-type: none"> <li>• Captive hardware with a hinged cover delivers a safe termination</li> <li>• Save money with uniform bridging, marking, and accessories</li> </ul>
6	41	2	RT-5	3049026	3030284 FBS 2-8	0829144 UCT-TM 12	0819194 UC-TM 12		
35	125	2	RT-8	3049042	3049194	3005947 FBS 2-10	0829146 UCT-TM 16	0819217 UC-TM 16	

## CLIPLINE Complete: All Connection Methods – One System

**Disconnect zone:**


- Standardised disconnect zones
- Accommodates connectors, such as fuse plugs, component connectors, and isolating plugs






**Plug-in zone:**

- Time-saving and modular configuration
- Standardized plug-in zone



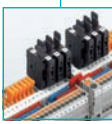
**Test plugs:**

- Reliable contacting of the test plugs with a 4 mm diameter
- Modular pluggable test points



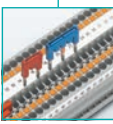
**Fuse plugs:**

- Pluggable 5x20 mm cartridge glass fuses
- Plugs available with LED indication
- Common markers between terminals and fuses



**Plug-in bridging:**

- Tool-free installation
- 2-50 position bridges
- Different colour options available
- Common between termination types
- Removable teeth for skip-bridging



# Distribution Blocks

■ What connection style best fits your application?	■ What colour is needed?
■ What wire size are you using? What is your current (Amps) requirement?	■ Resulting Phoenix Contact part number
■ How many connection points?	

Push-in (PTFIX 4/18)					
mm <sup>2</sup>	I (max)	Connections	Colour	Description	Order #
4	41	19	Grey	PTFIX 4/18X1,5-NS35 GY	1047454
			Blue	PTFIX 4/18X1,5-NS35 BU	1047455
			Red	PTFIX 4/18X1,5-NS35 RD	1047456
			Brown	PTFIX 4/18X1,5-NS35 BN	1047457
			Green	PTFIX 4/18X1,5-NS35 GN	1047458
			Yellow	PTFIX 4/18X1,5-NS35 YE	1047459
			Black	PTFIX 4/18X1,5-NS35 BK	1047460
			White	PTFIX 4/18X1,5-NS35 WH	1047461
			Violet	PTFIX 4/18X1,5-NS35 VT	1047462
			Orange	PTFIX 4/18X1,5-NS35 OG	1047463
			Pink	PTFIX 4/18X1,5-NS35 PK	1047464
Black/Yellow	PTFIX 4/18X1,5-NS35-FE	1047465			

Push-in (PTFIX 6/18)					
mm <sup>2</sup>	I (max)	Connections	Colour	Description	Order #
6	57	19	Grey	PTFIX 6/18X2,5-NS35 GY	3273110
			Blue	PTFIX 6/18X2,5-NS35 BU	3273112
			Red	PTFIX 6/18X2,5-NS35 RD	3273114
			Brown	PTFIX 6/18X2,5-NS35 BN	3273120
			Green	PTFIX 6/18X2,5-NS35 GN	3273118
			Yellow	PTFIX 6/18X2,5-NS35 YE	3273116
			Black	PTFIX 6/18X2,5-NS35 BK	3273124
			White	PTFIX 6/18X2,5-NS35 WH	3273122
			Violet	PTFIX 6/18X2,5-NS35 VT	3273126
			Orange	PTFIX 6/18X2,5-NS35 OG	3273128
			Pink	PTFIX 6/18X2,5-NS35 PK	3273127
Black/Yellow	PTFIX 6/18X2,5-NS35-FE	3273130			

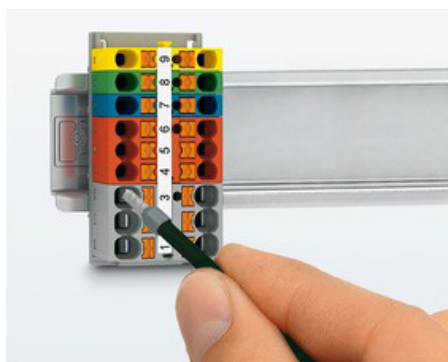
Push-in (PTFIX 10/18)					
mm <sup>2</sup>	I (max)	Connections	Colour	Description	Order #
10	63	19	Grey	PTFIX 10/18X4-NS35 GY	3273636
			Blue	PTFIX 10/18X4-NS35 BU	3273638
			Red	PTFIX 10/18X4-NS35 RD	3273640
			Brown	PTFIX 10/18X4-NS35 BN	3273646
			Green	PTFIX 10/18X4-NS35 GN	3273644
			Yellow	PTFIX 10/18X4-NS35 YE	3273642
			Black	PTFIX 10/18X4-NS35 BK	3273650
			White	PTFIX 10/18X4-NS35 WH	3273648
			Violet	PTFIX 10/18X4-NS35 VT	3273652
			Orange	PTFIX 10/18X4-NS35 OG	3273654
			Pink	PTFIX 10/18X4-NS35 PK	3273653
Black/Yellow	PTFIX 10/18X4-NS35-FE	3273656			



- ✓ Ready-to-use blocks for fast assembly without manual bridging, offering time savings of up to 80%
- ✓ Flexible setup in your application, thanks to various mounting options: DIN rail mounting, direct mounting, or adhesive mounting
- ✓ Space savings of up to 50% on the DIN rail, thanks to transverse mounting
- ✓ Colour-coded assignment of conductors and terminal points for intuitive and safe installation with eleven colours
- ✓ Time-saving pre-treated and rigid conductor connection, thanks to tool-free push-in direct connection technology
- ✓ Alignment without any loss of pitch and flexible potential extension using standard plug-in bridges



Eleven colour options available



Time saving push-in technology



Easy to bridge

# Interposing Relays

<ul style="list-style-type: none"> <li>What application or load are you switching: electromechanical or solid state?</li> <li>What is the input-coil voltage: DC or AC?</li> <li>What is your output current (Amps)? (Ratings are for resistive loads)</li> <li>How many sets of contacts do you need: SPDT, DPDT, etc.?</li> </ul>	<ul style="list-style-type: none"> <li>What connection technology: screw terminal (UT) or push-in (PT)?</li> <li>Which kind of specialty relays: hazardous location, sensor/actuator, filter base?</li> <li>Resulting Phoenix Contact part number</li> <li>What accessories are needed?</li> </ul>
---	--

## Electromechanical Relays

Input-Coil Voltage	Output Current	Sets of Contacts	Termination Style	Description	Order #	
12 V DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-12 DC/21	2966906	PLC relay assembly with electromechanical relay
			Push-in	PLC-RPT-12 DC/21	2900316	
		DPDT - 14 mm	Screw	PLC-RSC-12 DC/21-21	2967235	
			Push-in	PLC-RPT-12 DC/21-21	2900329	
24 V DC	50 mA	SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21AU	2966265	
			Push-in	PLC-RPT-24 DC/21AU	2900306	
		SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21	2966171	
			Push-in	PLC-RPT-24 DC/21	2900299	
	6 A	DPDT - 14 mm	Screw	PLC-RSC-24 DC/21-21	2967060	
			Push-in	PLC-RPT-24 DC/21-21	2900330	
		SPDT 6.2 mm	Screw	PLC-RSC-24DC/1/ACT	2966210	
			Screw	PLC-RSC-24DC/1AU/SEN	2966317	
		10 A	SPDT - 14 mm	Screw	PLC-RSC-24 DC/21HC	2967620
				Push-in	PLC-RPT-24 DC/21HC	2900291
24 V AC or DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-24UC/21	2966184	
			Push-in	PLC-RPT-24UC/21	2900300	
		DPDT - 14 mm	Screw	PLC-RSC-24UC/21-21	2967073	
			Push-in	PLC-RPT-24UC/21-21	2900332	
230 V AC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-230UC/21	2966207	
		SPDT - 6.2 mm	Push-in	PLC-RPT-230UC/21	2900305	
		DPDT - 14 mm	Screw	PLC-RSC-230UC/21-21	2967099	



## Solid State Relays

Input-Coil Voltage	Output Current	Sets of Contacts	Termination Style	Description	Order #	
5 V DC	3 A	NO ONLY - 6.2 mm	Screw	PLC-OSC-5 DC/24 DC/2/ACT	2980144	PLC Relay Assembly with Solid State Relay
			Push-in	PLC-OPT-5 DC/24 DC/2/ACT	2900375	
24 V DC	100 mA	NO ONLY - 6.2 mm	Screw	PLC-OSC-24 DC/48 DC/100	2966728	
			Push-in	PLC-OPT-24 DC/48 DC/100	2900352	
	3 A	NO ONLY - 6.2 mm	Screw	PLC-OSC-24 DC/24 DC/2	2966634	
			Push-in	PLC-OPT-24 DC/24 DC/2	2900364	
120 V AC or DC	3 A	NO ONLY - 6.2 mm	Screw	PLC-OSC-120UC/24 DC/2	2966650	
			Push-in	PLC-OPT-120UC/24 DC/2	2900355	



Note: AC outputs also available

## Triple-rated, hazardous location relays (more options available, please enquire)

Input-Coil Voltage	Output Current	Sets of Contacts	Termination Style	Description	Order #	
12 V DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-12 DC/21/EX	2909522	
			Screw	PLC-RSC-12 DC/21-21/EX	2909517	
	10 A	SPDT - 14 mm	Screw	PLC-RSC-12 DC/21/HC/EX	2909518	
24 V DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21/EX	2909524	
			Push-in	PLC-RPT-24 DC/21/EX	2909528	
	DPDT - 14 mm	Screw	PLC-RSC-24 DC/21-21/EX	2909509		
		Push-in	PLC-RPT-24 DC/21-21/EX	2909514		
230 V AC	6 A	SPDT 6.2 mm	Screw	PLC-RSC-230UC/21/EX	2909526	
		DPDT 14 mm	Screw	PLC-RSC-230UC/21-21/EX	2909512	
	10 A	DPDT 14 mm	Screw	PLC-RSC-230UC/21HC/EX	2909521	

Note: Additional coil voltages and connection technology options are available

## Specialty

Input-Coil Voltage	Output Current	Sets of Contacts	Termination Style	Description	Order #
120 V AC/DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-120UC/21/SO46	5603593

Note: Other specialty relays available (manual switch, force-guided, filter, high-density, DC motor control, etc.)

## Replacement Parts

### Mechanical Relays

Input-Coil Voltage	Output Current	Sets of Contacts	Description	Order #
12 V DC	6 A	SPDT - 6.2 mm	REL-MR-12 DC/21	2961150
		SPDT - 6.2 mm	REL-MR-24 DC/21	2961105
24 V DC	6 A	DPDT - 14 mm	REL-MR-24 DC/21-21	2961192
			REL-MR-230AC/21-21	2961451
230 V AC	8 A	SPDT - 16 mm	REL-MR-230AC/21HC/MS	2987914
	16 A		REL-MR-230AC/21-21/MS	2987972
	8 A			



### Solid-State Relays

Input-Coil Voltage	Output Current	Sets of Contacts	Description	Order #
5 V DC	3 A	SPST - 6.2 mm	OPT-5 DC/24 DC/2	2967989
24 V DC	3 A	SPST - 6.2 mm	OPT-24 DC/24 DC/2	2966595
60 V AC	3 A	SPST - 6.2 mm	OPT-60 DC/24 DC/2	2966605



**Potential Distribution**  
2966508 - PLC-ESK GY

**Adaptors and system cabling**  
V8 adaptor: 2295554 - PLC-V8/FLK14/OUT  
System able 1m: 2305253 - CABLE-FLK14/OE/0,14/100

**Terminal marking**  
6.2 mm wide: 0828736  
14 mm: 0829144

**Wide range of solutions**  
Over 600 standard and specialty relay solutions

**Partition plate**  
2966841 - PLC - ATP-BK

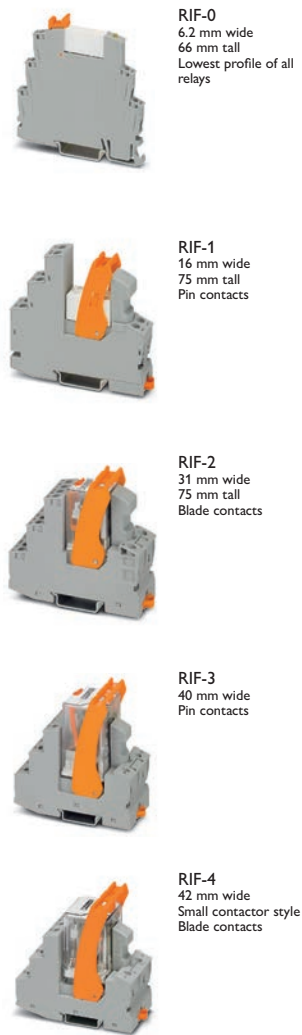
## PLC Relay Bridging

Easily bridge relays together with plug-in bridging – no tools required. Available in 2 positions or in continuous pieces for cutting to custom length.

Colour	2-Pos	500 mm
Red	2966236	2966786
Blue	2966812	2966692
Gray	2966825	2966838

# General Purpose and Pluggable Relays

■ What application or load are you switching: electromechanical or solid state?				■ How many sets of contacts do you need? SPDT, DPDT, etc.		
■ What is the input coil voltage: DC or AC?				■ Which connection technology: Screw terminal (UT) or Push-in (PT)?		
■ What is your output current (Amps)?				■ What accessories are needed?		
RIF Slimline relays						
	Input Voltage	Output Current	Sets of Contacts	Termination Style	Description	Order #
RIF-0	12 V DC	6 A	NO only	Screw	RIF-0-RSC-12DC/ 1	2903367
				Push-in	RIF-0-RPT-12DC/ 1	2903362
	24 V DC	6 A	NO only	Screw	RIF-0-RSC-24DC/ 1	2903366
				Push-in	RIF-0-RPT-24DC/ 1	2903361
RIF-1	12 V DC	11 A	SPDT	Screw	RIF-1-RSC-LDP-12DC/1X21	2908500
				Push-in	RIF-1-RPT-LDP-12DC/1X21	2906224
		8 A	DPDT	Screw	RIF-1-RSC-LDP-12DC/2X21	2908501
				Push-in	RIF-1-RPT-LDP-12DC/2X21	2906223
	24 V DC	11 A	SPDT	Screw	RIF-1-RSC-LDP-24DC/1X21	2903358
				Push-in	RIF-1-RPT-LDP-24DC/1X21	2903342
		8 A	DPDT	Screw	RIF-1-RSC-LDP-24DC/2X21	2903350
				Push-in	RIF-1-RPT-LDP-24DC/2X21	2903334
		50 mA	SPDT	Screw	RIF-1-RSC-LDP-24DC/1X21AU	2903354
				Push-in	RIF-1-RPT-LDP-24DC/1X21AU	2903338
			DPDT	Screw	RIF-1-RSC-LDP-24DC/2X21AU	2903346
				Push-in	RIF-1-RPT-LDP-24DC/2X21AU	2903330
	230 V AC	8A	2PDT	Screw	RIF-1-RSC-LV-230AC/2X21	2903347
				Push-in	RIF-1-RPT-LV-230AC/1X21	2903339
		10A	1PDT	Screw	RIF-1-RSC-LV-230AC/1X21	2903355
				Push-in	RIF-1-RPT-LV-230AC/2X21	2903331
8A		2PDT	Screw	RIF-1-RSC-LV-230AC/2X21	2903347	
			Push-in	RIF-1-RPT-LV-230AC/1X21	2903355	
RIF Ice-Cube Relays						
	Input Voltage	Output Current	Sets of Contacts	Termination Style	Description	Order #
RIF-2	24 V DC	10 A	2PDT	Screw	RIF-2-RSC-LDP-24DC/2X21	2903326
				Push-in	RIF-2-RPT-LDP-24DC/2X21	2903315
		6 A	4PDT	Screw	RIF-2-RSC-LDP-24DC/4X21	2903320
				Push-in	RIF-2-RPT-LDP-24DC/4X21	2903308
	230 V AC	5 A	4PDT	Screw	RIF-2-RSC-LV-230AC/4X21	2903316
				Push-in	RIF-2-RPT-LV-230AC/4X21	2903304
RIF-3	24 V DC	10 A	2PDT	Screw	RIF-3-RSC-LDP-24DC/2X21	2903303
				Push-in	RIF-3-RPT-LDP-24DC/2X21	2903297
		8.5 A	3PDT	Screw	RIF-3-RSC-LDP-24DC/3X21	2903300
				Push-in	RIF-3-RPT-LDP-24DC/3X21	2903294
	230 V AC	7 A	2PDT	Screw	RIF-3-RSC-LV-230AC/2X21	2903301
				Push-in	RIF-3-RPT-LV-230AC/2X21	2903295
		6 A	3PDT	Screw	RIF-3-RSC-LV-230AC/3X21	2903298
				Push-in	RIF-3-RPT-LV-230AC/3X21	2903292
RIF-4	24 V DC	10 A	3PDT	Screw	RIF-4-RSC-LDP-24DC/3X21	2903288
				Push-in	RIF-4-RPT-LDP-24DC/3X21	2903278
	230 V AC	8 A	3PDT	Screw	RIF-4-RSC-LV-230AC/3X21	2903285
				Push-in	RIF-4-RPT-LV-230AC/3X21	2903276



Note: Many additional contact arrangement and coil voltage options exist.

Description	Order #
MACX-TR-1T-MUL	1096429
MACX-TR-2T-MUL	1103345
MACX-TR-2T-MUL-PT	1103355
MACX-TR-1T-MUL-PT	1096431

# Smart Timer Relay

Exact time setting without testing and calculation

Display with countdown function for monitoring the module status

PIN code for protection from unauthorised changes



Quick selection of time functions using function diagrams on easy to read OLED display or smartphone

Can be operated via the device keys or via app with guided configuration

Error-free and fast transfer of existing and stored configurations via smartphone using NFC communication

# Hybrid Motor Starters

■ What type of motor start do you need?		■ What are the required functions?								■ Resulting Phoenix Contact part number (by connection technology)	
■ What is the maximum load current?											
■ What is your input voltage?											
Maximum Load Current	Input Voltage <sup>2</sup>	Functions							Connection Technology		
		Direct Starter	Reversing Starter	Motor Protection	Emergency Stop <sup>1</sup>	Can Be Networked	ATEX	Short-Circuit Protection	Screw	Push-In	
<b>Stand-Alone<sup>3</sup></b>											
0.6 A	24 V DC										
		✓	✓	✓	✓		✓		2900566	2903914	
		✓	✓	✓	✓		✓		2900582	2903902	
		✓	✓	✓	✓		✓	✓	2902746		
		✓	✓	✓	✓				2900542	2903920	
2.4 A	24 V DC	✓	✓	✓	✓		✓		2900573	2903908	
		✓	✓	✓	✓		✓		2900567	2903916	
		✓	✓	✓	✓		✓		2900414	2903904	
		✓	✓	✓	✓		✓	✓	2902744		
		✓	✓	✓	✓				2900543	2903922	
9 A	24 V DC	✓	✓	✓	✓		✓		2900574	2903910	
		✓	✓	✓	✓		✓		2900569	2903918	
		✓	✓	✓	✓		✓		2900421	2903906	
		✓	✓	✓	✓		✓	✓	2902745		
		✓	✓	✓	✓				2900545	2903924	
<b>Network-Capable (Gateway Required)</b>											
0.6 A	24 V DC	✓	✓	✓	✓	✓	✓		2900576	2903912	
		✓	✓	✓	✓	✓	✓		2900530		
		✓	✓	✓	✓	✓	✓		2900576	2903912	
		✓	✓	✓	✓	✓	✓		2900530		
3 A	24 V DC	✓	✓	✓	✓	✓	✓		2900530		
		✓	✓	✓	✓	✓	✓		2900530		
		✓	✓	✓	✓	✓	✓		2900530		
		✓	✓	✓	✓	✓	✓		2900530		
9 A	24 V DC	✓	✓	✓	✓	✓	✓		2900530		
		✓	✓	✓	✓	✓	✓		2900530		
		✓	✓	✓	✓	✓	✓		2900530		
		✓	✓	✓	✓	✓	✓		2900530		

<sup>1</sup>Dependent on the application up to PL e / SIL 3.

<sup>2</sup>Also available in 230 V versions. Check Phoenix Contact website for the full range.

<sup>3</sup>Modular options also available.






Connectivity, switching and conversion

<b>Solid State Contactors</b>					
Maximum Load Current	Input Voltage	Functions		Connection Technology	
		Direct Starter	Reversing Starter	Single-Phase	3-Phase
20 A	24 V DC				
	230 V AC	✓		1032919	
30 A	24 V DC	✓		1032920	
	230 V AC	✓		1032921	
37 A	24 V DC	✓		1032922	
		✓	✓		2297277
	230 V AC	✓			2297374
		✓	✓		2297280
50A	24 V DC	✓			2297387
	230 V AC	✓		1032926	
				1032927	

# CONTACTRON Speed Starter

■ Is the input single- or three-phased? ■ What is the size of your motor? ■ What is your nominal current (input/output)?			■ Housing and dimension specifications ■ Resulting Phoenix Contact part number		
Motor Power	Voltage/Current Input	Voltage/Current Output	Housing	Type	Order #
<b>Single-phase load input, with EMC filter<sup>1</sup></b>					
0.25 kW/0.3 HP	3.5 A	1.7 A	A2	CSS0.25-1/3-EMC	1201520
0.37 kW/0.5 HP	5.3 A	2.5 A	A2	CSS0.37-1/3-EMC	1201600
0.55 kW/0.7 HP	6.7 A	3.2 A	B2	CSS0.55-1/3-EMC	1201602
0.75 kW/1.0 HP	9.1 A	4.3 A	B2	CSS0.75-1/3-EMC	1201613
1.5 kW/2.0 HP	15.8 A	7.5 A	B2	CSS1.5-1/3-EMC	1201642
<b>Three-phase load input, with EMC filter<sup>1</sup></b>					
0.25 kW/0.3 HP	1.0 A	0.9 A	A2	CSS0.25-3/3-EMC	1201713
0.37 kW/0.5 HP	1.7 A	1.5 A	A2	CSS0.37-3/3-EMC	1201825
0.55 kW/0.7 HP	2.0 A	1.8 A	A2	CSS0.55-3/3-EMC	1201828
0.75 kW/1.0 HP	2.8 A	2.5 A	A2	CSS0.75-3/3-EMC	1201829
1.5 kW/2.0 HP	4.2 A	3.9 A	B2	CSS1.5-3/3-EMC	1201696

<sup>1</sup>Also available without EMC filter- Check Phoenix Contact website for the full range-

Housing <sup>2</sup>					
					
<b>Description</b>	<b>A1</b>	<b>A2</b>	<b>B1 heatsink</b>	<b>B1 fan</b>	<b>B2</b>
<b>Cooling</b>	Heatsink	Replaceable fan	Heatsink	Replaceable fan	Replaceable fan
<b>Dimensions (H x W x D)</b>	180 x 35 x 165 mm	180 x 35 x 185 mm	180 x 45 x 180 mm	180 x 45 x 180 mm	180 x 45 x 200 mm

<sup>2</sup>A1, B1 heatsink and B1 fan housing are available for motor starters without EMC filter only. For more details, check Phoenix Contact website.

**Direct Start**  
Easy control directly via 24 V PLC output cards or the 24 V output of the device




**Reversing Start**  
Reverse rotation via buttons directly on the device



**Motor Protection**  
Comfortable protection via flexible nominal current setting of the motor including remote reset function




**Safe Torque Off**  
The integrated safety function enables use in safety-related emergency stop applications



**Various Speeds**  
Speeds can be customised and modified as desired



**Ramp Function**  
Fully-adjustable soft motor start and shutdown.



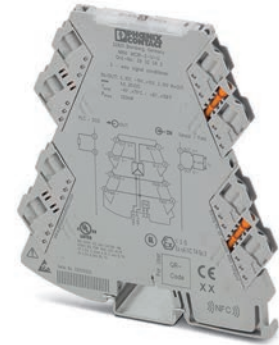




# Signal Conditioners

■ What type of conversion and/or isolation do you need?				
■ What is the module power? (Standard is module powered by separate 24 V DC)				
■ What is your input signal?				
■ What is the output signal?				
■ Resulting Phoenix Contact part number				
Fixed Signal Conversion and Isolation				
Module Power	Input Signal	Output Signal	Description	Order #
Line	0-10 V DC	0-10 V DC	MINI MCR-2-U-U	2902042
		Active 4-20 mA	MINI MCR-2-U-I4	2902029
	Active 4-20 mA	0-10 V DC	MINI MCR-2-I4-U	2902002
		Active 4-20 mA	MINI MCR-2-I-I	2901998
Universal and Configurable Analog Sign				
Module Power	Input Signal	Output Signal	Description	Order #
Line	Active/universal	Active/Universal	MINI MCR-2-UI-UI	2902037
	Active/universal	Active/Universal/Relay Out	MINI MCR-2-UNI-UI-UIRO	2902026
	4 mA ... 20 mA	4 mA-20 mA	MINI MCR-2-RPSS-I-I	2902014
	0 V ... 10 V	4 mA-20 mA	MINI MCR-2-U-I4-PT	2902030
	Universal	Contact Relay	MINI MCR-2-UI-REL-PT	2902035
	Universal	Universal	MINI MCR-2-UNI-UI-2UI	2905026
	Voltage	Universal	MINI MCR-2-U-UI	2902019
Voltage	Voltage	MINI MCR-2-U-U-PT	2902043	
Temperature Signal Conversion and Isolation				
Module Power	Input Signal	Output Signal	Description	Order #
Loop	RTD	Universal Analog	MINI MCR-2-RTD-UI	2902049
	Thermocouple	Universal Analog	MINI MCR-2-TC-UI	2902055
	Universal Temperature	N.O. Relay Set Point	MINI MCR-2-T-REL	2905632
	PT100	Common Analog	MINI MCR-SL-PT100-LP-NC	2810308
Low-Power Signal Conversion and Isolation				
Module Power	Input Signal	Output Signal	Description	Order #
Loop	Active 4-20 mA	Passive 4-20 mA	MINI MCR-2-I-I-ILP	2901994
			MINI MCR-2-2I-2I-ILP	2901996
	Active Universal Analog	Active 4-20 mA	MINI MCR-2-UI-I-OLP	2902061
	vvvv Passive 4-20 mA	Active 4-20 mA	MINI MCR-2-RPS-I-I-OLP	2906446
			MINI MCR-2-RPS-2I-2I-OLP	2906448
Specialty Signal Conversion and Isolation				
Module Power	Input Signal	Output Signal	Description	Order #
Line	4-20 mA/HART	2x 4-20mA/HART	MINI MCR-2-RPSS-I-2I	2905628
	Analog	Frequency and Set Point	MINI MCR-2-UI-FRO	2902031
	Frequency And PWM	Active 4-20 mA	MINI MCR-2-F-UI	2902056
	Load Cell/Strain Gage	4-20 ma/0-10 V	MCR-SGA-4/6-DC	5604058
	Potentiometer	Active 4-20 mA	MINI MCR-2-POT-UI	2902016
	Universal Analog	2x 4-20 mA	MINI MCR-2-UI-2I-NC	2905026
Universal Analog	Set Point/Relay Out	MINI MCR-2-UI-REL	2902033	
HART				
Module Power	Input Signal	Output Signal	Description	Order #
Line	4-20 mA/HART	4-20 mA/HART	MINI MCR-2-RPSS-I-I	2902014

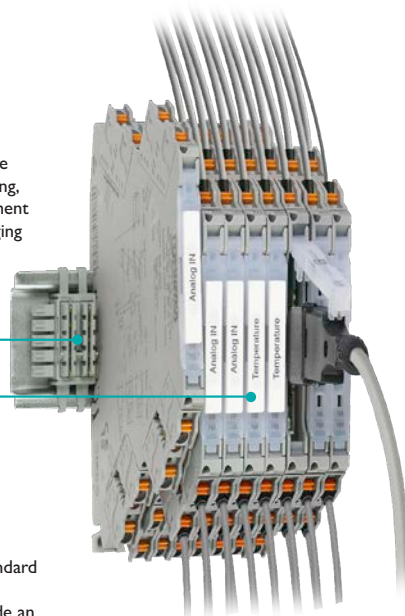
MINI MCR-2



Connectivity, switching and conversion

## Rapid power bridging and group error messaging

In addition to rapid power bridging, the DIN rail connector also simplifies wiring, system extension, or module replacement during operation. Group error messaging enables convenient diagnostics.



## Service-friendly

Large-surface marking areas enable complete loop identification using standard marking material. All status and error indicators are always visible and provide an instant overview on site.



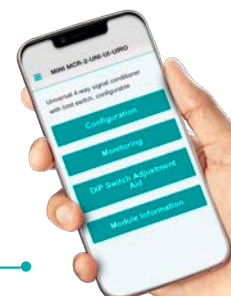
Easily accessible terminal points and FASTCON Pro plug-in connection terminal blocks



Measure signals during operation, without disconnecting the current loops.

## Smart parameterisation and monitoring

Depending on the product type, you can access the devices wirelessly: via NFC and Bluetooth. Benefit from the comprehensive functions of the MINI Analog Pro app and parameterise the modules directly on site or read the current measured values during operation.



# Heavy-Duty Connectors

Standard (Metal)



Evo (Plastic)



Selector Guide (Pick 4 Parts)

1	2	3	4
INSERT (M&F)	BASE	SLEEVE HOUSING	CABLE GLAND
	+		+
	+		

How many poles do you need?  
 What connection technology do you prefer?  
 Gender (Male / Female)?  
 Panel mounting with or without cover?  
 Hood - top or lateral entry?

HEAVYCON STANDARD											
Poles	Technology	Socket (F)		Plug (M)		Panel Mounting Base		Hood - Top Entry		Hood - Lateral Entry	
		Part Number	Description	Part Number	Description	With Cover	W/O Cover	Low Profile	High Profile	Low Profile	High Profile
6 poles	Screw	1648128	HC-B 6-I-UT-F	1648115	HC-B 6-I-UT-M	1411319	1411318	1412574 (M20)	1412566 (M25)	1412570 (M20)	1412562 (M25)
	Push-in	1407727	HC-B 6-I-PT-F	1407728	HC-B 6-I-PT-M	1411319	1411318	1412574 (M20)	1412566 (M25)	1412570 (M20)	1412562 (M25)
	Crimp	1648160	HC-B 6-I-CT-F	1648157	HC-B 6-I-CT-M	1411319	1411318	1412574 (M20)	1412566 (M25)	1412570 (M20)	1412562 (M25)
10 poles	Screw	1648186	HC-B 10-I-UT-F	1648173	HC-B 10-I-UT-M	1411321	1411320	1412629 (M20)	1412605 (M32)	1412625 (M25)	1412600 (M25)
	Push-in	1407729	HC-B 10-I-PT-F	1407730	HC-B 10-I-PT-M	1411321	1411320	1412629 (M20)	1412605 (M32)	1412625 (M25)	1412600 (M25)
	Crimp	1605569	HC-B 10-I-CT-F	1605624	HC-B 10-I-CT-M	1411321	1411320	1412629 (M20)	1412605 (M32)	1412625 (M25)	1412600 (M25)
16 poles	Screw	1648241	HC-B 16-I-UT-F	1648238	HC-B 16-I-UT-M	1411325	1411324	1412730 (M32)	1412689 (M32)	1412726 (M32)	1412679 (M32)
	Push-in	1407731	HC-B 16-I-PT-F	1407732	HC-B 16-I-PT-M	1411325	1411324	1412730 (M32)	1412689 (M32)	1412726 (M32)	1412679 (M32)
	Crimp	1648283	HC-B 16-I-CT-F	1648270	HC-B 16-I-CT-M	1411325	1411324	1412730 (M32)	1412689 (M32)	1412726 (M32)	1412679 (M32)
24 poles	Screw	1648306	HC-B 24-I-UT-F	1648296	HC-B 24-I-UT-M	1411332	1411331	1412779 (M32)	1412754 (M32)	1412774 (M32)	1412750 (M32)
	Push-in	1407735	HC-B 24-I-PT-F	1407736	HC-B24-I-PT-M	1411332	1411331	1412779 (M32)	1412754 (M32)	1412774 (M32)	1412750 (M32)
	Crimp	1648348	HC-B 24-I-CT-F	1648335	HC-B 24-I-CT-M	1411332	1411331	1412779 (M32)	1412754 (M32)	1412774 (M32)	1412750 (M32)

HEAVYCON EVO										
Poles	Technology	Socket (F)		Plug (M)		Panel Mounting Base		Hood - Top And Lateral Entry		
		Part Number	Description	Part Number	Description	With Cover	W/O Cover	Low Profile	High Profile	High Profile
6 poles	Screw	1648128	HC-B 6-I-UT-F	1648115	HC-B 6-I-UT-M	1407622	1407621	1407619		1407620
	Push-In	1407727	HC-B 6-I-PT-F	1407728	HC-B 6-I-PT-M	1407622	1407621	1407619		1407620
	Crimp	1648160	HC-B 6-I-CT-F	1648157	HC-B 6-I-CT-M	1407622	1407621	1407619		1407620
10 poles	Screw	1648186	HC-B 10-I-UT-F	1648173	HC-B 10-I-UT-M	1407633	1407632	1407626		1407627
	Push-In	1407729	HC-B 10-I-PT-F	1407730	HC-B 10-I-PT-M	1407633	1407632	1407626		1407627
	Crimp	1605569	HC-B 10-I-CT-F	1605624	HC-B 10-I-CT-M	1407633	1407632	1407626		1407627
16 poles	Screw	1648241	HC-B 16-I-UT-F	1648238	HC-B 16-I-UT-M	1407647	1407646	1420931		1407642
	Push-In	1407731	HC-B 16-I-PT-F	1407732	HC-B 16-I-PT-M	1407647	1407646	1420931		1407642
	Crimp	1648283	HC-B 16-I-CT-F	1648270	HC-B 16-I-CT-M	1407647	1407646	1420931		1407642
24 poles	Screw	1648306	HC-B 24-I-UT-F	1648296	HC-B 24-I-UT-M	1407662	1407661	1420935		1407657
	Push-In	1407735	HC-B 24-I-PT-F	1407736	HC-B24-I-PT-M	1407662	1407661	1420935		1407657
	Crimp	1648348	HC-B 24-I-CT-F	1648335	HC-B 24-I-CT-M	1407662	1407661	1420935		1407657

## ACCESSORIES - CABLE GLAND

HEAVYCON STANDARD	
M20	1411163
M25	1411165
M32	1411166
M40	1411167

HEAVYCON EVO	
7-13mm	1407669 (M20 equivalent)
9-17mm	1407670 (M25 equivalent)
11-21mm	1407671 (M32 equivalent)
19-28mm	1407672 (M40 equivalent)

# M12 Connectors





A comprehensive range of M8 and M12 flush-type connectors and panel feed-through has emerged as a result of the various requirements for sensor/actuator device connection technology in industrial environments.

Customer-specific developments for assembly enable optimum adaptation to individual device concepts.



- ✓ 3 to 17 positions
- ✓ A, B, D, or X coding
- ✓ Available in Screw, Insulation displacement, Push-in, and Crimp connection

Connectivity, switching and conversion

M8							
	Positions	Connection Tech	Gender	Diameter	Order #	Description	
<b>3-position</b> Female  Male 	3-Pos.	Screw	Male Straight	3.5-5 mm	1501252	SACC-M 8MS-3CON-M-SW	
			Female Straight		1506888	SACC-M 8FS-3CON-M-SW	
		Insulation Displacement	Male Straight	2.5-5 mm	1441008	1441066	SACC-M 8MS-3QO-0,25-M
			Female Straight				
<b>4-position</b> Female  Male 	4-Pos.	Screw	Male Straight	3.5-5 mm	1681169	SACC-M 8MS-4CON-M	
			Female Straight		1506891	SACC-M 8FS-4CON-M-SW	
		Insulation Displacement	Male Straight	3.5-5 mm	1441037	1521601	SACC-FS-4QO-0,75-M SCO
			Female Straight				

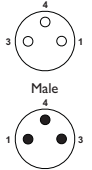
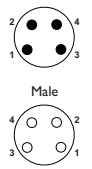
M12							
	Positions	Connection Tech	Head	Diameter	Order #	Description	
<b>4-position</b> Female  Male 	4-Pos.	Screw	Male Straight	4-6 mm	1662528	SACC-M12MS-4CON-PG 7-M	
			Male Angled		1681101	SACC-M12MR-4CON-PG7-M	
			Female Straight		1681127	SACC-M12FS-4CON-PG7-M	
			Female Angled		1681143	SACC-M12FR-4CON-PG7-M	
		Insulation Displacement	Male Straight	4-8 mm	1641785	SACC-M12MS-4QO-0,75-M	
			Female Straight		1641772	SACC-M12FS-4QO-0,75-M	
			Push-In	Male Straight	4-8 mm	1424657	SACC-MS-4PL M SCO
				Male Angled		1424654	SACC-M12MR-4PL M
Female Straight	1424655	SACC-M12FS-4PL M					
Female Angled	1424656	SACC-M12FR-4PL M					
<b>5-position</b> Female  Male 	5-Pos.	Screw	Male Straight	4-6 mm	1663116	SACC-M12MS-5CON-PG 7-M	
			Male Angled	6-8 mm	1681460	SACC-M12MS-5CON-PG 9-M	
			Female Straight	4-6 mm	1663129	SACC-M12MR-5CON-PG 7-M	
			Female Angled		1662968	SACC-M12FS-5CON-PG 7-M	
		Push-In	Male Straight	4-8 mm	1424649	SACC-M12MS-5PL M	
			Female Straight		1424652	SACC-M12FS-5PL M	
			Male Angled		1424651	SACC-M12MR-5PL M	
			Female Angled		1424653	SACC-M12FR-5PL M	
<b>8-position</b> Female  Male 	8-Pos.	Screw	Female Straight	6-8 mm	1513347	SACC-M12FS-8CON-PG9-M	
			Male Straight		1513334	SACC-M12MS-8CON-PG9-M	

# Cordsets



- What thread size do you need on your cordset: M8 or M12?
- How many positions (wires) are required?
- What gender should the connectors be: female or male?
- Is the head orientation straight or right angle?
- What is the desired cordset length?
- Resulting Phoenix Contact part numbers (shielded and non-shielded)
- Select CMAT: Allows you to configure cable type/length (enter into extranet tool)
- Do you need a mating front- or rear-mount receptacle with the cordset?

\*\*Locknut not included with front mount. M8 locknuts (8 mm) = 1504071. M12 locknuts (16 mm) = 1504097

M8												
	Positions	Gender	Head Orientation	Length	Non-Shielded PUR Jacket Part #	Non-Shielded CMAT #	Shielded PUR Jacket Part #	Shielded CMAT #	Front-Mount Receptacle	Rear-Mount Receptacle		
<b>3-Position Female</b> 	3-Pos.	Male/Female	Straight	1.5 m	1681923	1405935	1455285	1405828	1500350	1453449		
		Female	Straight	5 m	1669628	1405956	1521737	1405834	1500334	1453478		
			Right Angle		1669631	1405957	1521782	1405835	1500334	1453478		
		Male	Straight		1681680	1405939	1521630	1405830	1500350	1453449		
			Right Angle		1681716	1405944	1521685	1405833	1500350	1453449		
		Female	Straight		10 m	1694101	1405956	1521740	1405834	1500334	1453478	
	Right Angle		1694169			1405957	1521795	1405835	1500334	1453478		
	Male	Straight	1693584	1405939		1521643	1405830	1500350	1453449			
		Right Angle	1694114	1405944		1521698	1405833	1500350	1453449			
	<b>4-position Female</b> 	4-Pos.	Male/Female	Straight		1.5 m	1682168	1405902	1455735	1405810	1500363	1453452
			Female	Straight		5 m	1681868	1405923	1521931	1405822	1500347	1453481
				Right Angle	1681897		1405924	1521986	1405823	1500347	1453481	
Male			Straight	1681800	1405906		1521834	1405818	1500363	1453452		
			Right Angle	1681839	1405911		1521889	1405821	1500363	1453452		
Female			Straight	10 m	1683484		1405923	1521944	1405822	1500347	1453481	
	Right Angle	1694172	1405924		1521999		1405823	1500347	1453481			
Male	Straight	1694143	1405906		1521847	1405818	1500363	1453452				
	Right Angle	1694156	1405911		1521892	1405821	1500363	1453452				

M12												
	Positions	Gender	Head Orientation	Length	Non-Shielded PUR Jacket Part #	Non-Shielded CMAT #	Shielded PUR Jacket Part #	Shielded CMAT #	Front-Mount Receptacle	Rear-Mount Receptacle		
<b>3-Position Female</b> 	3-Pos.	Male/Female	Straight	1.5 m	1681525		1500826					
		Female	Straight	5 m	1683510	1405947	1682809	1405927	1523434	1419632		
			Right Angle		1694525	1405959	1682838	1405934	1523450	1419629		
		Male	Straight		1668030	1405949	1682676	1405929	1523434	1419632		
			Right Angle		1668153	1405955	1682702	1405932	1523434	1419632		
		Female	Straight		10 m	1693034	1405958	1500680	1405933	1523450	1419629	
	Right Angle		1694538			1405959	1500693	1405934	1523450	1419629		
	Male	Straight	1682566	1405949		1500664	1405929	1523434	1419632			
		Right Angle	1694444	1405955		1500677	1405932	1523434	1419632			
	<b>4-position Female</b> 	4-Pos.	Male/Female	Straight		1.5 m	1668373		1500868			
			Female	Straight		5 m	1668124	1405925	1682867	1405900	1523450	1419629
				Right Angle	1668247		1405926	1682922	1405901	1523450	1419629	
Male			Straight	1668069	1405916		1682647	1405896	1523434	1419632		
			Right Angle	1668182	1405922		1682896	1405899	1523434	1419632		
Female			Straight	10 m	1683002		1405925	1500716	1405900	1523450	1419629	
	Right Angle	1681389	1405926		1500729		1405901	1523450	1419629			
Male	Straight	1682993	1405916		1694389	1405896	1523434	1419632				
	Right Angle	1694457	1405922		1500703	1405899	1523434	1419632				
<b>5-position Female</b> 	5-Pos.	Male/Female	Straight		1.5 m	1681606	1405886	1500907	1405877	1520039	1419658	
		Female	Straight		5 m	1669848	1405892	1682951	1405884	1520055	1419645	
			Right Angle	1669877		1405893	1682980	1405885	1520055	1419645		
		Male	Straight	1669783		1405888	1682731	1405879	1520039	1419658		
			Right Angle	1669819		1405891	1682773	1405883	1520039	1419658		
		Female	Straight	10 m		1683374	1405886	1500758	1405877	1520039	1419658	
Right Angle	1694541		1405892			1500761	1405884	1520055	1419645			
Male	Straight	1683361	1405893		1500732	1405885	1520055	1419645				
	Right Angle	1694460	1405888		1500745	1405879	1520039	1419658				
<b>8-position Female</b> 	8-Pos.	Male/Female	Straight		1.5 m	1522697	1405891	1522985	1405883	1520039	1419658	
		Female	Straight		5 m	1520369	1405851	1522888	1405843	1523492	1419687	
			Right Angle	1522642		1405852	1522930	1405844	1523492	1419687		
		Male	Straight	1522516		1405847	1526981	1405839	1523476	1419690		
			Right Angle	1522561		1405850	1522833	1405842	1523476	1419690		
		Female	Straight	10 m		1520372	1405851	1522891	1405843	1523492	1419687	
Right Angle	1522655		1405852			1522943	1405844	1523492	1419687			
Male	Straight	1522529	1405847		1522794	1405839	1523476	1419690				
	Right Angle	1522574	1405850		1522846	1405842	1523476	1419690				


# M8/M12 Distributor Boxes

Use distributor boxes for quick and clear cabling in the field. Distributor boxes bundle several cables into one master cable that is connected to the controller. Thanks to the status indicator, you have an overview of a large number of signals.


- ✓ Increased machine availability, thanks to easy diagnostics
- ✓ Safety in the field, thanks to molded housing and high degree of protection
- ✓ Flexible cabling, thanks to the wide product range and various master cable connections

Connectivity switching and conversion

## M8 Metal Thread




8 Positions  
Single Occupancy  
✓ LED




8 Positions  
Double Occupancy  
✓ LED

Connection Type			Connection Type		
Master Cables	Cable Glands	Connectors	Master Cables	Cable Glands	Connectors
1197232 (5m)	1197611 (Screw)	1197575 (M12 to M8)	1197314 (5m)	1197617 (Screw)	N/A
1197236 (10m)	1197616 (Spring)	1166980 (M16 to M8)	1197319 (10m)	1197620 (Spring)	


## M12 Metal Thread




8 Positions  
Single Occupancy  
✗ LED



8 Positions  
Double Occupancy  
✗ LED




8 Positions  
Single Occupancy  
✓ LED




8 Positions  
Double Occupancy  
✓ LED

Connection Type			Connection Type			Connection Type			Connection Type		
Master Cables	Cable Glands	Connectors	Master Cables	Cable Glands	Connectors	Master Cables	Cable Glands	Connectors	Master Cables	Cable Glands	Connectors
1517042 (5m)	1516881	N/A	1517068 (5m)	1516894	N/A	1517165 (5m)	1516823	N/A	1517181 (5m)	1516836	N/A
1517055 (10m)			1517071 (10m)			1517178 (10m)			1517194 (10m)		


## M12 Plastic Thread




8 Positions  
Single Occupancy  
✗ LED



8 Positions  
Double Occupancy  
✗ LED



8 Positions  
Single Occupancy  
✓ LED



8 Positions  
Double Occupancy  
✓ LED

Connection Type			Connection Type			Connection Type			Connection Type		
Master Cables	Cable Glands	Connectors	Master Cables	Cable Glands	Connectors	Master Cables	Cable Glands	Connectors	Master Cables	Cable Glands	Connectors
1452518 (5m)	1452783	N/A	1452547 (5m)	1452796 (Screw)	1692844 (M23 to M12)	1452699 (5m)	1452848 (Screw)	N/A	1452725 (5m)	1452851 (Screw)	1692459 (M23 to M12)
1452521 (10m)			1452550 (10m)	1452974 (Spring)		1452709 (10m)	1453025 (Spring)		1452738 (10m)	1453038 (Spring)	

## Accessories

Master Cable Ring for Sensor/Actuator boxes



Cross Section

Master Cable M23 Plug Connection






19 pos.


1503344	50m	PUR/PVC Black	1684056	5m	PUR/PVC black
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# Ethernet Switches

## Unmanaged Switches


■ How many copper ports are required?				■ Are dual-power input and alarm contacts required?				
■ Are specialty ports required: Power Over Ethernet (PoE) and/or fiber optic?				■ Is the installation in a hazardous location?				
■ What are the total number of ports required?				■ Are extreme environmental conditions present?				
■ What speed is required in the network?				■ Resulting Phoenix Contact part number				
<b>Unmanaged Switch 1000</b>								
Copper Ports	Specialty Ports	Total Ports	Speed	Power Alarm	Hazardous	Type Description	Order #	
5		5	10/100	N	Y	FL SWITCH 1005N	1085039	
8		8	10/100	N	Y	FL SWITCH 1008N	1085256	
16		16	10/100	N	Y	FL SWITCH 1016N	1085255	
5		5	Gigabit	N	Y	FL SWITCH 1105N	1085254	
8		8	Gigabit	N	Y	FL SWITCH 1108N	1085243	
<b>SFNB</b>								
5		5	10/100	N	Y	FL SWITCH SFNB 5TX	2891001	
4	1 Fiber, SC MM	4	10/100	N	Y	FL SWITCH SFNB 4TX/FX	2891027	
4	1 Fiber, ST MM	4	10/100	N	Y	FL SWITCH SFNB 4TX/FX ST	2891028	
4	1 Fiber, SC SM	4	10/100	N	Y	FL SWITCH SFNB 4TX/FX SM20	2891029	
8		8	10/100	N	Y	FL SWITCH SFNB 8TX	2891002	
<b>SFN</b>								
5		5	10/100	N	Y	FL SWITCH SFN 5TX	2891152	
4	1 Fiber, SC MM	5	10/100	N	Y	FL SWITCH SFN 4TX/FX	2891851	
4	1 Fiber, ST MM	5	10/100	N	Y	FL SWITCH SFN 4TX/FX ST	2891453	
8		8	10/100	N	Y	FL SWITCH SFN 8TX	2891929	
7	1 Fiber, SC MM	8	10/100	N	Y	FL SWITCH SFN 7TX/FX	2891097	
7	1 Fiber, ST MM	8	10/100	N	Y	FL SWITCH SFN 7TX/FX ST	2891110	
6	2 Fiber, SC MM	8	10/100	N	Y	FL SWITCH SFN 6TX/2FX	2891314	
6	2 Fiber, ST MM	8	10/100	N	Y	FL SWITCH SFN 6TX/2FX ST	2891411	

## Managed Switches





■ How many copper ports are required?				■ What special features are included?				
■ How many fiber optic ports are required?				■ What is the designation of the FL Switch?				
■ What are the total number of combo ports?				■ Resulting Phoenix Contact part number				
■ What is the speed?								
Copper Ports	Fiber Optic Ports	Combo Ports	Port Speed	Special Features	Designation FL SWITCH	Order #		
<b>Intelligent Switches for the Machine: Switch 2000 and 2100</b>								
Supply voltage: 18-32 V DC (redundant), temperature range: -0°C to +60°C, IP20, front port outlet direction								
5 x RJ45	-	-	10/100 Mbps	-	2005	2702323		
8 x RJ45	-	-		-	2008	2702324		
16 x RJ45	-	-		-	2016	2702903		
5 x RJ45	-	-	10/100/1,000 Mbps	-	2105	2702665		
8 x RJ45	-	-		-	2108	2702666		
16 x RJ45	-	-		-	2116	2702908		
<b>Intelligent Switches for Universal Use: Switch 2200 and 2300</b>								
Supply voltage: 12-57 V DC (redundant), temperature range: -40°C to +70°C, IP20, front port outlet direction, PROFINET Class B Approvals: DNV/GL, BV, ABS, LR, RINA, IECEx, ATEX Zone 2								
5 x RJ45	-	-	10/100 Mbps	Digital alarm output Fast Ring Detection, Large Tree Support, MRP Manager, up to 32 static VLANs, pool-based DHCP server and option 82	2205	2702326		
8 x RJ45	-	-			2208	2702327		
16 x RJ45	-	-			2216	2702904		
8 x RJ45	-	-	10/100/1,000 Mbps		2308	2702652		
6 x RJ45	2 x SFP	-			2306-2SFP	2702970		

# PoE and Installation Technology

How many copper ports are required?	Are dual-power input and alarm contacts required?
Are specialty ports required: Power Over Ethernet (PoE) and/or fiber optic?	Is the installation in a hazardous location?
What are the total number of ports required?	Are extreme environmental conditions present?
What speed is required in the network?	Resulting Phoenix Contact part number





Copper Ports	Specialty Ports	Total Ports	Speed	Power Alarm	Hazardous	Description	Order #	SFNB
<b>POE</b>								
1	4 PoE+	5	10/100	Y	N	FL SWITCH 1001T-4POE	2891064	POE
0	2 PoE+/2 Fiber SFP	4	Gigabit	Y	N	FL SWITCH 1000T-2POE-GT-2SFP	1026765	
0	8 PoE+/2 Fiber SFP	10	Gigabit	Y	N	FL SWITCH SWITCH 1000-8POE-GT	1102079	
1	4 PoE+/1 Fiber SFP	6	Gigabit	Y	N	FL SWITCH 1001T-4POE-GT-SFP	1026932	
1	4 PoE+	5	Gigabit	Y	N	FL SWITCH 1001T-4POE-GT	1026937	
<b>IP67</b>								
5		24	10/100	N	N	FL SWITCH 1605 M12	2700200	

What connection methods does it have?	What PoE standard does it comply to?
What is the temperature rating?	What is the designation?
What is the max power allowed?	Resulting Phoenix Contact part number
Does it have any special features?	

	Connection Method	Temperature Range	Power Budget	Special Features	PoE Standard	Designation	Order #		
<b>POE Injector</b>									
	RJ45/RJ45	0°C to +55°C	2 x 15 W	Electrical isolation in the power supply unit	IEEE 802.3 af	FL PSE 2TX	2891013		
			15/30 W	--	IEEE 802.3 af/at (PoE+)	INJ 1000	2703005		
		0°C to +60°C	60 W	Electrical isolation in the power supply unit	Prepared for PoE bt (PoE++)	INJ 1010	2703007		
			15/30 W	Electrical isolation in the power supply unit, surge protection and shield current diagnostics	IEEE 802.3 af/at (PoE+)	INJ 1000-T	2703006		
			60 W		Prepared for PoE bt (PoE++)	INJ 1010-T	2703008		
			15/30 W		IEEE 802.3 af/at (PoE+)	INJ 1100-T	2703009		
60 W	Prepared for PoE bt (PoE++)	INJ 1110-T	2703010						
	RJ45/IDC	-40°C to +75°C	15/30 W	Electrical isolation in the power supply unit, surge protection and shield current diagnostics	IEEE 802.3 af/at (PoE+)	INJ 2102-T	2703012		
			60 W		Prepared for PoE bt (PoE++)	INJ 2112-T	2703014		
			15/30 W		IEEE 802.3 af/at (PoE+)	INJ 2103-T	1004065		
			60 W		Prepared for PoE bt (PoE++)	INJ 2113-T	1004066		
	RJ45/Push-In		-40°C to +75°C		15/30 W	Electrical isolation in the power supply unit, surge protection and shield current diagnostics	IEEE 802.3 af/at (PoE+)	INJ 2101-T	2703011
								RJ45/Screw	60 W

# PoE and Installation Technology

■ What connection methods does it have?	■ Does it have surge protection?
■ What type of patch panel is this?	■ What is the designation?
■ How is it shielded?	■ Resulting Phoenix Contact part number
■ How is the shield connected?	

	Connection Method	Description	Shielding	Cable Shield Connection	Surge Protection	Designation	Order #
<b>Patch Panels</b>							
	RJ45/RJ45	Standard ethernet patch panel, 8-Pos., 10/100/1,000 Mbps	Right on the DIN rail	Using an RJ45 socket	No	PP-RJ-RJ	2703015
	RJ45/Screw			Toolless using shield contact spring		PP-RJ-SC	2703016
	RJ45/Push-In	Standard ethernet patch panel, 8-Pos., 10/100/1,000 Mbps		Using an RJ45 socket		PP-RJ-SCC	2703018
	RJ45/IDC			PP-RJ-IDC	2703019		
	RJ45/RJ45	Function variant ethernet patch panels 8-Pos., 10/100/1,000 Mbps		Toolless using shield contact spring	Yes	PP-RJ-RJ-F	2703020
	RJ45 /Screw					PP-FJ-SC-F	2703021
	RJ45/Push-In	With surge protection and shield current diagnostics	PP-RJ-SCC-F			2703022	
	RJ45/IDC		PP-RJ-IDC-F		2703023		



## Toolless Shield Connection

Connect the cable shielding to the DIN rail without tools - with strain relief assured at the same time.



## Shield Current Diagnostics

The reliable display of hazardous shield currents increases the safety of the installation.



## Quick and Easy Installation

Installation takes 60% less time, thanks to patented cable connection technology.



# Industrial Wireless

What's the voltage range?	What wireless technology used?
What's the temperature range?	What's the input/output?
What's the wireless frequency?	Resulting Phoenix Contact part number

Wireless Ethernet						
Voltage Range	Temperature Range	Wireless Frequency	Wireless Technology	I/O	Description	Order #
9-32 VDC	-40°C to 60°C	2.4/5 GHz	WLAN a, b, g, n	-	FL WLAN 2010	1119246
9-32 VDC	0°C to 60°C	2.4 / 5 GHz	WLAN a, b, g, n	-	FL WLAN 1100	2702534
9-30 VDC	-40°C to 65°C	2.4 / 5 GHz	Bluetooth/WLAN a, b, g, n	-	FL EPA 2 RSMA	1005957



Wireless Serial / IO						
Voltage Range	Temperature Range	Wireless Frequency	Wireless Technology	I/O	Description	Order #
19.2-30.5 VDC	-40°C to 70°C	2.4 GHz	Trusted Wireless	-	RAD-2400-IFS	2901541
10.8-30.5 VDC	-40°C to 70°C	915 MHz	Trusted Wireless	-	RAD-900-IFS-AU	2702878
19.2-30.5 VDC	-40°C to 70°C	-	-	-	RAD-RS485-IFS	2702184
19.2-30.5 VDC	-40°C to 70°C	-	-	4 Digital Inputs	RAD-DI4-IFS	2901535
19.2-30.5 VDC	-40°C to 70°C	-	-	4 Relay Outputs	RAD-DOR4-IFS	2901536
19.2-30.5 VDC	-40°C to 70°C	-	-	8 Digital Inputs	RAD-DI8-IFS	2901539
19.2-30.5 VDC	-40°C to 70°C	-	-	8 Digital Transistor Outputs	RAD-DO8-IFS	2902811
19.2-30.5 VDC	-40°C to 70°C	-	-	4 Analogue Inputs	RAD-AI4-IFS	2901537
19.2-30.5 VDC	-40°C to 70°C	-	-	4 Analogue Outputs	RAD-AO4-IFS	2901538
19.2-30.5 VDC	-40°C to 70°C	-	-	2 Digital Inputs and Outputs, 1 Analogue Input and Output	RAD-DAIO6-IFS	2901533
19.2-30.5 VDC	-40°C to 70°C	-	-	4 RTD PT100 Inputs	RAD-PT100-4-IFS	2904035
19.2-30.5 VDC	-40°C to 70°C	-	-	4 NAMUR Digital Inputs	RAD-NAM4-IFS	2316275



Automation, networks and I/O

What's the antenna type?	What's the connection method?
What frequency	Resulting Phoenix Contact part number
Antenna gain	

Wireless Accessories - Antenna						
Antenna Type	Frequency	Gain	Connection	Description	Order #	
Omnidirectional	2.4 GHz	2 dBi	RSMA (Male)	RAD-ISM-2400-ANT-OMNI-2-1-RSMA	2701362	
Omnidirectional	2.4 GHz/5 GHz	2.5 dBi/5 dB	N (Female)	ANT-OMNI-2459-02	2701408	
Omnidirectional	2.4 GHz	6 dBi	N (Female)	RAD-ISM-2400-ANT-OMNI-6-0	2885919	
Directional	2.4 GHz/5 GHz	9 dBi	N (Female)	ANT-DIR-2459-01	2701186	
Omnidirectional	900 MHz	2 dBi	RSMA (Male)	RAD-900-ANT-OMNI-2-2-RSMA	2904801	
Omnidirectional	900 MHz	7 dBi	N (Female)	RAD-ISM-900-ANT-OMNI-5	2867199	
Omnidirectional	900 MHz	5 dBi	N (Female)	RAD-ISM-900-ANT-OMNI-FG-3-N	2867791	
Directional	900 MHz	5 dBi	N (Female)	RAD-ISM-900-ANT-YAGI-3-N	2867801	
Directional	900 MHz	8.5 dBi	N (Female)	RAD-ISM-900-ANT-YAGI-6.5-N	2867814	



What's the connection type?	What's the attenuation of the cable?
What's the length of the cable?	Resulting Phoenix Contact part number







Wireless Accessories - Coaxial cable				
Connection	Length	Attenuation	Description	Order #
N (Male) -> RSMA (Male)	0.5 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-0.5	2903263
N (Male) -> RSMA (Male)	1 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-1	2903264
N (Male) -> RSMA (Male)	2 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-2	2903265
N (Male) -> RSMA (Male)	3 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-3	2903266
N (Male) -> RSMA (Male)	5 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-5	2702140
2x N (Male)	3 m	1.0 / 1.5 / 2.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-CAB-PFP240-10	5606124
2x N (Male)	6 m	1.0 / 1.5 / 2.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-CAB-PFP400-20	5606125



# Secure Remote Connectivity

Phoenix Contact Order #	mGuard cloud compatible?	Does it have DMZ capability?
Can it be installed in a hazardous location?	What external memory type does it have?	Is it cellular capable?
How many copper ports does it have?	Does it have a full stateful firewall?	Can it fall over from a wired connection to cellular network?
What is the temperature rating?	Is it VPN hub capable?	

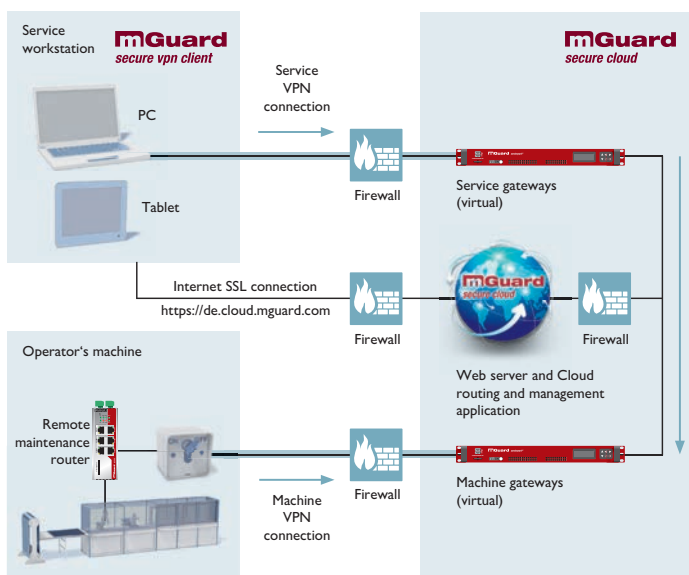
mGuard						
						
Model	FL mGuard RS2000	FL mGuard RS2005	TC mGuard RS2000	FL mGuard RS4000	FL mGuard RS4004	TC mGuard RS4000
Order #	2700642	2701875	2903588	2200515	2701877	2903586
C1D2	Yes	Yes	Yes	Yes	Yes	Yes
LAN Ports Available	1	5	4	1	4	4
Temperature	-20°C -> +60°C	-20°C -> +60°C	-40°C -> +60°C	-20°C -> +60°C	-20°C -> +60°C	-40°C -> +60°C
mGuard Secure Cloud Compatible	Yes	Yes	Yes	Yes	Yes	Yes
External Memory	SD	SD	SD	SD	SD	SD
Full Stateful Firewall				Yes	Yes	Yes
VPN Hub Capability						
DMZ Capability				Yes	Yes	Yes
Cellular and GPS Capability					Yes	Yes
Failover from Wired to Cell			Yes			Yes

## Cloud-Based Remote Maintenance

### mGuard Secure Cloud



Functional components and features of the mGuard Secure Cloud




The mGuard Secure Cloud uses IPsec VPNs and ensures the confidentiality, authenticity, and integrity of data transmitted between devices. Service personnel use an approved VPN client, such as the mGuard Secure VPN Client Software or an FL mGuard smart, and connect their workstations to the mGuard Secure Cloud.

The machines are equipped with industry-capable remote maintenance routers and establish your VPN connection to the cloud as needed. The mGuard Secure Cloud web interface controls the service technician's access to the machines.











#### Features:

- Highly secure IPsec VPN communication
- 2-factor authentication
- User management for access to various customers and systems
- Superior availability worldwide
- Operated in Germany in accordance with the most stringent security and data protection standards
- Industry-proven mGuard security technology

# Axioline F for the Control Cabinet

Technical Data			
<b>Ambient Conditions</b>		<b>Supply Voltages</b>	
Temperature Range (Operation)	-25°C to +60°C	Nominal Value	24 V DC
Relative Humidity (Operation)	5%-95% (No Condensation)	Ripple	±5% according to EN 61131-2
Vibration	5g According to EN 60068-2-6	Permissible Range	19.2 V DC-30.0 V DC
Shock	30g According to EN 60068-2-27	<b>System Times</b>	
Continuous Shock	10g According to EN 60068-2-29	System Bus Cycle Time	2 µs
Degree of Protection	IP20	Module Offset	1 µs
<b>Electromagnetic Compatibility</b>		Bus Coupler Offset	0 µs
Noise Emission	Class B According to EN 61000-6-3	<b>Approvals</b>	
Noise Immunity	According to EN 61000-4		

 Product description
 What is the designation?
 Resulting Phoenix Contact part number?

Network Connection							
Bus Couplers	Description	Designation	Order #	Bus couplers	Description	Designation	Order #
	 Bus Coupler for PROFINET	AXL F BK PN	2701815		 Bus Coupler for Modbus TCP	AXL F BK ETH	2688459
	 Bus Coupler for EtherCAT	AXL F BK EC	2688899		 Bus Coupler for PROFIBUS	AXL F BK PB	2688530
	 Bus Coupler for EtherNet/IP™	AXL F BK EIP	2688394				

Automation, networks and I/O

## PLCnext Control

**FLEXIBLE INTEGRATION OF OPEN-SOURCE SOFTWARE AND APPS**





PLCnext Control devices enable you to work flexibly with your preferred programming languages, whether it's IEC 61131-3 or high-level languages. Unlimited flexibility with the quick and easy integration of open source software and apps, current and future communication standards, and intelligent networking through connection to the cloud afford maximum freedom for your transition into the digital age.



Description	Order #
AXC F 1152 - Compact controller	1151412
AXC F 2152 - Mid performance controller	2404267
AXC F 3152 - High performance controller	1069208



# Axioline F for the Control Cabinet

What is the description of the product model?			
What is the designation?			
Resulting Phoenix Contact part number			
Acquiring Digital Data			
 <p><b>DI</b> <b>Digital Input</b></p> <ul style="list-style-type: none"> <li>• 16 to 64 channels</li> <li>• High-speed inputs</li> <li>• 54 mm and 35 mm design width</li> </ul>	Description	Designation	Order #
	16 Digital Inputs, 1-Wire	AXL F DI16/1 1H	2688310
	16 Digital Inputs, 1-Wire, High Speed	AXL F DI16/1 HS 1H	2701722
	16 Digital Inputs, 4-Wire	AXL F DI16/4 2F	2688022
	32 Digital Inputs, 1-Wire	AXL F DI32/1 1F	2688035
 <p><b>DO</b> <b>Digital Output</b></p> <ul style="list-style-type: none"> <li>• 8 to 32 channels</li> <li>• 2 A outputs</li> <li>• 54 mm and 35 mm design width</li> </ul>	64 Digital Inputs, 1-Wire	AXL F DI64/1 2F	2701450
	8 Digital Outputs, 2-Wire, 2 A	AXL F DO8/2 2A 1H	2688381
	16 Digital Outputs, 1-Wire	AXL F DO16/1 1H	2688349
	16 Digital Outputs, 3-Wire	AXL F DO16/3 2F	2688048
 <p><b>DI DO</b> <b>Digital Input/Output</b></p> <ul style="list-style-type: none"> <li>• 35 mm</li> </ul>	32 Digital Outputs, 1-Wire	AXL F DO32/1 1F	2688051
	8 Digital Inputs, 8 Digital Outputs, 1-Wire	AXL F DI8/1 DO8/1 1H	2701916
Acquiring Analog Data			
 <p><b>AI</b> <b>Analog Input</b></p> <ul style="list-style-type: none"> <li>• 4 to 8 channels</li> <li>• 54 mm and 35 mm design width</li> </ul>	4 Analog Inputs, Current	AXL F AI4 I 1H	2688491
	4 Analog Inputs, Voltage	AXL F AI4 U 1H	2688501
	8 Analog Inputs, Current/Voltage	AXL F AI8 1F	2688064
	4 Temperature Inputs, RTD	AXL F RTD4 1H	2688556
	4 Temperature Inputs, UTH	AXL F UTH4 1H	2688598
	8 Temperature Inputs, RTD	AXL F RTD8 1F	2688077
 <p><b>AO</b> <b>Analog Output</b></p> <ul style="list-style-type: none"> <li>• 4 to 8 channels</li> <li>• 54 mm and 35 mm design width</li> </ul>	8 Temperature Inputs, UTH	AXL F UTH8 1F	2688417
	4 Analog Outputs, Current/Voltage	AXL F AO4 1H	2688527
	8 Analog Outputs, Current/Voltage	AXL F AO8 1F	2688080
Special Function Modules			
 <p><b>FKT</b> <b>Special Function Modules</b></p> <ul style="list-style-type: none"> <li>• 54 mm and 35 mm design width</li> </ul>	1 Interface can be configured as RS-485/RS-422 or RS-232	AXL F RS UNI 1H	2688666
	2 Counter Inputs, 2 Incremental Encoder Inputs	AXL F CNT2 INC2 1F	2688093
	1 SSI Interface, 1 Analog Output	AXL F SSI1 AO1 1H	2688433

## Axioline Smart Elements IO

The pluggable Axioline Smart Elements are system-free modules without bus communication. The individual element only supports the I/O function. Only in combination with a backplane, which functions similarly to an adapter, bus communication for the respective I/O system is realised. The Axioline Smart Elements are therefore universal and flexible in use.





Description	Order #
AXL F BP SE4	1088135
AXL F BP SE6	1088136
AXL SE DI16/1	1088127
AXL SE DO16/1	1088129
AXL SE AI4 I 4-20	1088062
AXL SE AI4 U 0-10	1088104
AXL SE AO4 I 4-20	1088123
AXL SE AO4 U 0-10	1088126
AXL SE IOL4	1088132
AXL SE RS485	1088128
AXL SE SC-A	1088134

# Control Cabinet Lights

## Enclosure Lights

The enclosure lights from Phoenix Contact provide optimum lighting for your control cabinet, and are easy to install without tools. In particular, the lower third of the control cabinet is ideally lit via a high-quality lens and prismatic reflector. Choose the lights tailored to your needs from two performance classes and a particularly flexible product range.

Class 409 PLD Enclosure Lights		
Model View		
Type	PLD E 409 W 350	PLD E 409 W 350 MS
Order #	1319569	1319573
Dimensions L x W x H	350 mm x 30 mm x 40 mm	350 mm x 30 mm x 40 mm
Luminous Flux	700 lm (Net Luminous Flux)	700lm (Net Luminous Flux)
Protection Class	II	II
Power Consumption	6 W	6 W
Motion Sensor	No	Yes

## Advantages

- Optimum illumination of the entire control cabinet thanks to high-quality optics
- Worldwide 400-class application possibilities thanks to wide-range power supply
- UL approval also enables use in the North American market
- The 400-class push-in connection enables time savings during cabling
- The long LED service life eliminates maintenance work and replacing lights

## Class 400 PLD enclosure lights







The enclosure lights of the 400 class are characterised by optimum lighting of the control cabinet interior, even in the lower area, thanks to high-quality optics. The wide range supply of 24 to 240 V AC/DC enables worldwide use. The push-in connection technology guarantees the quick and easy installation of the lights.









The light can be swiveled in increments and the delivery includes both screw and magnet fastening mounting options, providing a high degree of flexibility. This is also the case in terms of controlling the lights. You have the choice between a version with an integrated motion sensor or with a connection to a door position switch.



# HMI's

Resulting Phoenix Contact part number	How many hours of operation do you require?	What level of protection is needed?
What size screen do you need?	What type of touch functionality do you require?	What kind of special approvals are needed?
What resolution is required?	What type of processing power is needed?	
What is the minimum brightness required?	What temperature range is needed?	

HMIs for HTML5 Applications						
Model View						
Designation	BWP 2043W	BWP 2070W	BWP2102W	BWP 4070W/P	BWP 4101W/P	BWP 4120W/P
Order #	1060549	1060632	1060630	1065546 (Configurable Product)		
Display (in cm)	10.92 (4.3 inches)	17.8 (7 inches)	26.4 (10.2 inches)	17.78 (7 inches)	25.65 (10.1 inches)	30.73 (12.1 inches)
Colours	262,144			16.7 million		
Resolution (W x H in pixels)	480 x 272 (WQVGA)	800 x 480 (WVGA)	1024 x 600 (WVGA)	1280 x 800 (WXGA)		
Brightness (in cd/m <sup>2</sup> )	300			400	850	320
Backlight (MTTF in h)	20,000			50,000		
Touch Technology	Polyester, Analog Resistive			Projective-Capacitive (PCAP)		
Processor	Cortex®-A9 (i.MX6 Solo)			ARM® Cortex®-A53, 4x 1.2 GHz		
Temperature Range	Operation: 0°C to +50°C Storage: -20°C to +85°C			Operation: 0°C to +50°C Storage: -20°C to +85°C		
Degree of Protection (Front/Back)	IP65/IP20			IP65/IP20		
Approvals	UL/cUL/Class I, Div. 2			UL/cUL, Class I, Div. 2, NEMA 4X		

HMIs for Standard Applications								
Model View								
Designation	BTP 2043	BTP 2070W	BTP2102W	TP 3070W/P	TP 3090W/P	TP 3120W/P	TP 3156W/P	TP 3185W/P
Order #	1050387	1046666	1046667	2403459	2403460	2403461	2403462	2403862
Display (in cm)	10.92 (4.3 inches)	17.8 (7 inches)	26.4 (10.2 inches)	17.78 (7 inches)	22.68 (9 inches)	30.73 (12.1 inches)	39.62 (15.6 inches)	47.00 (18.5 inches)
Colours	262,144			16.77 Million				
Resolution (w x h in pixels)	480 x 272 (WQVGA)	800 x 480 (WVGA)		800 x 480 (WVGA)		1280 x 800 (WXGA)	1366 x 768 (WXGA)	
Brightness (in cd/m <sup>2</sup> )	300			400	800	320		240
Backlight (MTTF in h)	20,000			40,000	70,000	50,000	70,000	50,000
Touch Technology	Polyester, Analog Resistive			Projective-Capacitive (PCAP)				
Processor	ARM®9 i.MX28, 454 MHz			ARM® Cortex®-A8, 1 GHz, Real-Time Clock (with battery backup)				
Temperature Range	Operation: 0°C to +50°C, Storage: -20°C to +85°C			Operation: -0°C to +50°C, Storage: -25°C to +70°C				
Degree of Protection (Front/Back)	IP66/IP20			IP65/IP20				
Approvals	UL/cUL/Class I, Div. 2			UL/cUL, Class I, Div. 2, NEMA 4X				

# Safety Relays



## Safety switch

Use our non-contact safety switches with RFID technology for intelligent safety door and position monitoring.



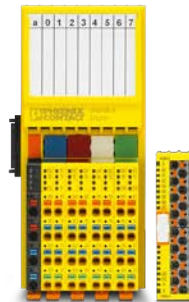
## Safety relay modules

If you require just a small number of safety functions, you can choose from our large range of safety relays, safe signal conditioners, and safe motor starters.



## Configurable safety systems

The PSRmodular configurable safety system is a flexible safety solution for monitoring your machine or system.



## Safe I/Os

Integrate functional safety into your existing control network, whether in the control cabinet or in the field. With SafetyBridge Technology, the safety function is processed directly in the I/O modules.



## Safe control technology

With our safe high-performance controllers, you can integrate reliable functional safety into PROFIsafe networks for applications with special demands on safety and availability.



## Safe power supplies

Our high-performance QUINT POWER power supplies ensure superior availability of your system and satisfy all functional safety requirements.

	Emergency stop		Solenoid switch		Start/restart		Changeover contact
	Safety door switch, mechanical		Two-hand function		Enabling current path / N/O contact		Contact with dropout delay
	Light grid		Transponder switch		N/C contact		












### PSRmini: Highly compact safety relays for machine building











Type	Applications							Output contacts				Safety approvals		Width In mm	Order #	
												PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061		Screw connection	Push-in connection
PSR-MS20 <sup>1)</sup> 24 V DC	●	●	-	●	-	-	A	1	-	-	1	c <sup>6)</sup>	1 <sup>4)</sup>	6.8	2904950	-
PSR-MS25 <sup>1)</sup> 24 V DC	●	●	-	●	-	-	M	1	-	-	1	c <sup>6)</sup>	1 <sup>4)</sup>	6.8	2904951	-
PSR-MS40 <sup>3)</sup> 24 V DC	●	●	-	-	-	●	A	1	-	-	1	e	3	6.8	2904954	-
PSR-MS60 <sup>3)</sup> 24 V DC	●	●	●	●	-	● <sup>10)</sup>	A	2	-	-	-	e	3	6.8	2904958	-
PSR-MC32 24...230 V DC	●	●	●	●	-	● <sup>10)</sup>	A/M	3	-	1	-	e	3	22.5	2700524	-





### PSRclassic: Conventional safety relays for machine building





Type	Applications							Output contacts				Safety approvals		Width In mm	Order #	
												PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061		Screw connection	Push-in connection
PSR-ESA2-B 24 V AC/DC	●	●	-	-	-	-	A	4	-	1	-	c <sup>2)</sup>	1 <sup>2)</sup>	-	2963802	296354
PSR-ESAM4/3X1-B Voltage variants	●	●	-	-	-	-	A/M	3	-	1	-	e	3	-	See catalogue for ordering data	
PSR-ESL4 <sup>1)</sup> 24 V AC/DC	●	●	●	-	-	●	A/M	3	-	1	-	e	3	-	2981059	2981062
PSR-THC4 <sup>3)</sup> 24 V AC/DC	-	●	-	-	●	-	A	2	-	1	-	e	3	-	2963721	2963983
PSR-URM4 42 to 230 V AC/DC	Contact extension							4	-	2	-	e <sup>3)</sup>	3 <sup>3)</sup>	-	2702924	2702925
PSR-URM4 24 V AC/DC	Contact extension							5	-	2	-	e <sup>3)</sup>	3 <sup>3)</sup>	-	2963734	2964005

# Safety Relays

 Emergency stop	 Solenoid switch	 Start/Restart	 Changeover contact
 Safety door switch, mechanical	 Two-hand function	 Enabling current path/ N/O contact	 Contact with dropout delay
 Light grid	 Transponder switch	 N/C contact	

PSRmultifunction: Multifunctional Safety Relays															
Type	Applications							Output Contacts		Safety Approvals		Width	Order #		
										PL in Accordance with EN ISO 13849-1	SILCL in Accordance with EN 62061	In mm	Screw Connection	Spring-Cage Connection	Push-In Connection
PSR-MXF1 24 V DC	●	●	-	-	-	-	A/M	4	2	e	3	-	2902725	2902726	2903253
PSR-MXF2 24 V DC	●	●	-	●	-	-	A/M	4	2	e	3	-	2903254	2903255	2903256
PSR-MXF3 24 V DC	●	●	●	-	-	●	A/M	4	2	e	3	-	2903257	2903258	2903259


PSRmini: Highly compact, safe coupling relays for the process industry															
Type	Applications	Output Contacts			Diagnostics/Proof Test				Safety Approvals				Width	Order #	
	Highly compact, safe coupling relays for failsafe controllers				Visual via LED	Active Error Acknowledgment via A1 <sup>2)</sup>	Measurement on the Device	Self-Monitoring with Interlocking	SIL in Accordance with IEC 61508 / 61511	SIL in Accordance with IEC 50156	ATEX / IECEx / Class I Zone 2	G3 in Accordance with ANSI / ISA-S71.04	GL	In mm	Screw Connection
PSR-PS20 24 V DC	For safety-related shutdown (ESD)	1	1	1	●	●	●	-	3	3	●	●	●	6.8	2700356
PSR-PS21 24 V DC		1	1	1	●	●	●	-	2	2	●	●	●	6.8	2700357
PSR-PS23 24 V DC		1	1	-	●	-	●	-	3	3	●	●	●	6.8	2702663

PSRclassic: Classic, safe coupling relays for the process industry															
Type	Applications	Output Contacts			Diagnostics/Proof Test				Safety Approvals				Width	Order #	
	Highly compact, safe coupling relays for failsafe controllers				Visual via LED	Active Error Acknowledgment via A1 <sup>2)</sup>	Measurement on the Device	Self-Monitoring with Interlocking	SIL in accordance with IEC 61508 / 61511	SIL in Accordance with IEC 50156	ATEX / IECEx / Class I Zone 2	G3 in Accordance with ANSI / ISA-S71.04	GL	In mm	Screw Connection
PSR-FSP 24 V DC	For safety-related shutdown (ESD)	1	1	-	-	-	●	-	3	3	-	-	●	17.5	2981978
PSR-FSP/2x1 24 V DC		2	1	-	-	-	●	-	3	3	-	-	●	17.5	2986960


## Force-guided Contact Relays

<ul style="list-style-type: none"> <li>What application or load are you switching: electromechanical or solid state?</li> <li>What is the input-coil voltage: DC or AC?</li> <li>What is your output current (Amps)? (Ratings are for resistive loads)</li> <li>How many sets of contacts do you need: SPDT, DPDT, etc.?</li> </ul>	<ul style="list-style-type: none"> <li>What connection technology: screw terminal (UT) or push-in (PT)?</li> <li>Resulting Phoenix Contact part number</li> <li>What accessories are needed?</li> </ul>
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Electromechanical Relays					
Input-Coil Voltage	Output Current	Sets of Contacts	Termination Style	Description	Order #
24 V DC	6 A	DPDT - 14 mm	Screw	PLC-RSC- 24DC/2X21/FG	2910535
			Push-In	PLC-RPT- 24DC/2X21/FG	2910537
RIF Slimline Relays					
24 V DC	6 A	DPDT - 14 mm	Screw	RIF-1-RSC-LDP-24DC/2X21/FG	2909848
			Push-In	RIF-1-RPT-LDP-24DC/2X21/FG	2908215

Replacement Parts					
Mechanical Relays					
Input-Coil Voltage	Output Current	Sets of Contacts	Description	Order #	
24 V DC	6 A	DPDT - 14 mm	REL-MR-24 DC/21-21	2961192	



PSRswitch: Non-Contact Safety Switches					
Type	Description	Coding Type/Function	Connection Technology		
			Screw Connection	Spring-Cage Connection	M12 Connection
PSR-CT-F-SEN-1-8	Safety Sensor	Fixcode: The sensor accepts a single actuator. This actuator is taught in by the user during commissioning. It is not possible to teach in further actuators.	-	-	2702976
PSR-CT-C-SEN-1-8		Unicode: The sensor accepts one actuator. The actuator is taught in by the user during commissioning. It is possible to teach in an unlimited number of further actuators in succession. Previously taught in actuators are blocked by the sensor. They can no longer be used.	-	-	2702972
PSR-CT-M-SEN-1-8		Multicode: The sensor accepts all actuators. It is not necessary to teach them in during commissioning.	-	-	2702975
PSR-CT-C-ACT	Actuator	Coded, suitable for all sensor coding types	-	-	2702973
PSR-MC42	Safety Relay	With integrated IO-Link interface	2702901	2702902	-
SAC-8PY-M/2XF BK 1-PSR	Y Distributor	Type 1 for series connection of PSR-CT safety circuits	-	-	1054338
SAC-8PY-M/2XF BK 2-PSR		Type 2 for manual startup behaviour	-	-	1054339
SAC-8PY-M/2XF BK 3-PSR		Type 3 for integrated diagnostics via signal contact with PSR-CT safety circuits	-	-	1054341
SAC-5P-M12MS BK BR 1-2-4	Bridge Plug	Dummy plug for every sensor circuit	-	-	1054366

## Safe I/Os

With our I/O systems, you can integrate functional safety easily and reliably into your favoured network, whether in the control cabinet or in the field. Use our safe PROFI-safe I/O modules as usual in combination with your safety controller in the PROFINET or PROFIBUS environment. As an alternative, SafetyBridge Technology allows you to realise decentralised safety solutions easily and regardless of network, without the need for a safety controller.



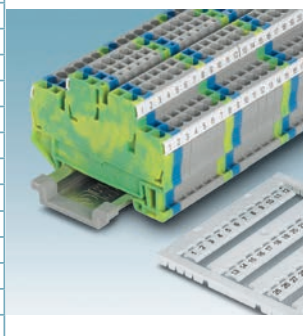
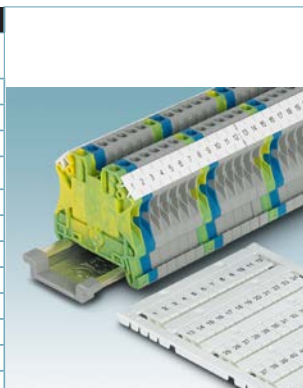
## Configurable Safety Systems

With configurable safety systems from Phoenix Contact, you can adapt your safety technology so it is tailored to your needs. Use our high-performance basic modules as a stand-alone solution or extend the system flexibly with extension modules, including the monitoring of motion and analog value data. Our configurable safety systems combine functionality and flexibility. At the same time, they also close the gap between simple safety relays and programmable safe controllers.



# Marking

Order #	Description	Terminal Marking				
		Thermomark Card 2.0	Thermomark Prime	Bluemark ID	Bluemark ID Colour	Topmark Neo
0829484	UCT-TM 3,5	✓	✓	✓	✓	✓
0828734	UCT-TM 5	✓	✓	✓	✓	✓
0828736	UCT-TM 6	✓	✓	✓	✓	✓
0828740	UCT-TM 8	✓	✓	✓	✓	✓
0829142	UCT-TM 10	✓	✓	✓	✓	✓
0829144	UCT-TM 12	✓	✓	✓	✓	✓
0829146	UCT-TM 16	✓	✓	✓	✓	✓
0818108	UC-TM 5			✓	✓	
0818085	UC-TM 6			✓	✓	
0818072	UC-TM 8			✓	✓	
0818069	UC-TM 10			✓	✓	
0819194	UC-TM 12			✓	✓	
0819217	UC-TM 16			✓	✓	
0829486	UCT-TMF 3,5	✓	✓	✓	✓	✓
0828744	UCT-TMF 5	✓	✓	✓	✓	✓
0828746	UCT-TMF 6	✓	✓	✓	✓	✓
0828748	UCT-TMF 8	✓	✓	✓	✓	✓
0829204	UCT-TMF 10	✓	✓	✓	✓	✓
0829214	UCT-TMF 12	✓	✓	✓	✓	✓
0829218	UCT-TMF 16	✓	✓	✓	✓	✓
0818153	UC-TMF 5			✓	✓	
0818140	UC-TMF 6			✓	✓	
0818137	UC-TMF 8			✓	✓	
0818124	UC-TMF 10			✓	✓	
0819233	UC-TMF 12			✓	✓	
0819262	UC-TMF 16			✓	✓	



Wire/Cable Marking Labels						
0801430	UCT-WMT (10X4)	✓	✓	✓	✓	✓
0801438	UCT-WMT (12X4)	✓	✓	✓	✓	✓
0801446	UCT-WMT (15X4)	✓	✓	✓	✓	✓
0801462	UCT-WMT (18X4)	✓	✓	✓	✓	✓
0801453	UCT-WMT (23X4)	✓	✓	✓	✓	✓
0801422	UCT-WMT (30X4)	✓	✓	✓	✓	✓
0819372	UC-WMT (10X4)			✓	✓	
0823517	UC-WMT (12X4)			✓	✓	
0819398	UC-WMT (15X4)			✓	✓	
0820293	UC-WMT (18X4)			✓	✓	
0819411	UC-WMT (23X4)			✓	✓	
0801422	UC-WMT (30X4)			✓	✓	
0828765	US-WMT (10X4)	✓	✓	✓	✓	
0828766	US-WMT (12X4)	✓	✓	✓	✓	
0828767	US-WMT (15X4)	✓	✓	✓	✓	
0828768	US-WMT (18X4)	✓	✓	✓	✓	
0828769	US-WMT (23X4)	✓	✓	✓	✓	
0828770	US-WMT (30X4)	✓	✓	✓	✓	



Wire/Cable Sleeves						
Conductor Diameter	10 mm	12 mm	15 mm	18 mm	23 mm	30 mm
0.6-1.2 mm	PATG 0/10 1013795	PATG 0/12 0827076	PATG 0/15 1013740	PATG 0/18 0820507	PATG 0/23 0828046	
1.5-2.5 mm	PATG 1/10 1013805	PATG 1/12 0827077	PATG 1/15 1013025	PATG 1/18 0820510	PATG 1/23 1013847	PATG 1/30 0822440
2-4 mm	PATG 2/10 1013818	PATG 2/12 0827078	PATG 2/15 1013038	PATG 2/18 0820523	PATG 2/23 1013850	PATG 2/30 0822453
4-7 mm	PATG 3/10 1013821	PATG 3/12 0827079	PATG 3/15 1013041	PATG 3/18 0820536	PATG 3/23 1013863	PATG 3/30 0822466
6-10 mm		PATG 4/12 0827080	PATG 4/15 1013054	PATG 4/18 0820549	PATG 4/23 0808011	PATG 4/30 0822479
10-14 mm			PATG 5/15 1013067	PATG 5/18 088059	PATG 5/23 0808024	PATG 5/30 0822482
14-22 mm			PATG 6/15 1013070	PATG 6/18 0828062	PATG 6/23 0808037	
22-30 mm			PATG 7/15 1013083		PATG 7/23 0808040	
30-35 mm			PATG 8/15 1013096		PATG 8/23 0808053	
35-45 mm			PATG 9/15 1013106			



# Printing

■ <b>How to select a printer</b>				
■ <b>What are you marking and with what material: CARD or ROLL material?</b>				
■ <b>How many labels do you need to print: volume?</b>				
■ <b>Do you need a desktop or mobile printer: size?</b>				
NOTE: Card printers require magazine that matches the card material				
Printing Solutions				
Material	Volume	Size	Description	Order #
Card and Sheet	Manual Feed	Desktop	THERMOMARK CARD 2.0	1085267
Card and Sheet	Manual Feed	Desktop and Portable	THERMOMARK PRIME	5148888
Roll	< 50,000 Labels/yr.	Desktop	THERMOMARK ROLL 2.0	1085260
Roll	> 50,000 Labels/yr.	Large/Desktop	THERMOMARK ROLLMASTER	0804501
Cartridge	Low	Handheld	THERMOMARK GO.K	1184146
Cartridge	Low	Handheld	THERMOMARK GO.K SET	1184148
Cartridge	Low	Portable	THERMOMARK GO	1090747
Cartridge	Low	Portable	THERMOMARK GO SET	1221548



Print Ribbon						
Printer	Print Materials	Width (mm)	Length (mm)	Description	Order #	
Thermomark Roll 2.0	TML..., WML..., WML HF..., WML-FLAG..., EML..., EML-ESD..., EML-RM..., EML-HA..., EMLS..., EMLC..., EMLP... and PMM...	110	300	THERMOMARK-RIBBON 110	5145384	
	WMS... and WMS-2 HF...	64	300	THERMOMARK-RIBBON 64-WMSU	801360	
	WMS... and WMS-2 HF...	110	300	THERMOMARK-RIBBON 110-WMSU	801358	
	WMTB HF..., WMS-2 HF..., TMT..., EMT..., EMLF..., PML...	110	300	THERMOMARK-RIBBON 110-WMTB HF	5148007	
	EML-HT...	110	300	THERMOMARK-RIBBON 110-EML-HT	800342	
Thermomark Card 2.0	UCT..., US..., and UM...	110	300	THERMOMARK-RIBBON 110-TC	801371	
	UCT..., US..., and UM...	110	70	TMP-RIBBON 110 BK 100	803374	
Thermomark Prime	US(2)-TM(F)..., US-TM(F)L..., US-WMTB..., US-EML..., US-EML(S)P..., US-EMLP-HA..., US-EM(S)P..., US-EML-RS...	110	60	TMP-RIBBON 110 BK 101	803714	

Print Ribbon					
Printer	Description	Width/Diameter	Length (m)	Description	Order #
Thermomark GO and Thermomark GO.K	Shrink Sleeve, White, Black Printing, 3:1 ratio	Cable Diameter 1-3.2 mm	1.8m	MM-WMS 3,2 (EX5)R C1 WH/BK	803923
		Cable Diameter 1.6-4.8 mm		MM-WMS 4,8 (EX9)R C1 WH/BK	803924
		Cable Diameter 2.1-6.4 mm		MM-WMS 6,4 (EX10)R C1 WH/BK	803925
		Cable Diameter 3.2-9.5 mm		MM-WMS 9,5 (EX16)R C1 WH/BK	803926
	Fabric Label, White, Black Printing, Adhesive	10 mm	6m	MM-EMLC (EX10)R C1 WH/BK	803933
		18 mm		MM-EMLC (EX18)R C1 WH/BK	803936
	Label, White, Black Printing, Adhesive	10 mm	8m	MM-EML (EX10)R C1 WH/BK	803970
		12 mm		MM-EML (EX12)R C1 WH/BK	803971
		18 mm		MM-EML (EX18)R C1 WH/BK	803972
		24 mm		MM-EML (EX24)R C1 WH/BK	803973
	Label, White, Black Printing, Highly Flexible, Adhesive	10 mm	8m	MM-EMLF (EX10)R C1 WH/BK	803937
		12 mm		MM-EMLF (EX12)R C1 WH/BK	803938
		18 mm		MM-EMLF (EX18)R C1 WH/BK	803939
		24 mm		MM-EMLF (EX24)R C1 WH/BK	803940
	Label, White, Black Printing, Highly Flexible, Adhesive	10 mm	8m	MM-EMLF (EX10)R C1 YE/BK	803941
		12 mm		MM-EMLF (EX12)R C1 YE/BK	803942
18 mm		MM-EMLF (EX18)R C1 YE/BK		803943	
24 mm		MM-EMLF (EX24)R C1 YE/BK		803944	

Shopfloor Productivity

# Installation

What do you use to cut conductors, cables, and cable binders?		Do you ferrule wires? What size wire are you crimping?	
What do you use to strip wires and multi-conductor cables?		What tools do you need to terminate conductors?	
<b>Installation</b>			
<b>Cut</b>	<b>Function</b>	<b>Conductor Size</b>	<b>Description</b>
	Cable-Cutting Tool	Up to 35 mm <sup>2</sup>	CUTFOX 12
	Cable-Cutting Tool	Up to 50 mm <sup>2</sup>	CUTFOX 18
	Diagonal Cutter	For hard and soft wires from 0.2-11 mm diameter	CUTFOX S VDE
	Cable Tie Tool	For plastic cable ties 2.2-4.8 mm wide, up to 1.6 mm thick	UNIFOX-CT 4,8P
Cable Tie Tool	For steel cable ties up to 7.9 mm wide, up to 0.3 mm thick	UNIFOX-CT 7,9M	
<b>Single conductor</b>			
<b>Function</b>	<b>Conductor Size</b>	<b>Cable Type</b>	<b>Description</b>
Self-Adjusting Stripping Tool	0.1-4 mm <sup>2</sup>	Especially for rubber and silicone insulation	WIREFOX 4
Self-Adjusting Stripping Tool	1.5-6 mm <sup>2</sup>	Especially for cables protected against short circuits and ground leakages	WIREFOX 6SC
Self-Adjusting Stripping Tool	0.02-10 mm <sup>2</sup>		WIREFOX 10
<b>Multi-Conductor</b>			
Strips Sensor/Actuator Cables	Diameter 4.4-7 mm	Sensor/Actuator cables with PUR and PVC insulation	WIREFOX SAC
Strips Multi-Conductor Cables	Diameter 2.5-11 mm, up to 1 mm insulation	Multicore signal, control, and fiberglass wires	WIREFOX-D 11
Strips Large, Multi-Conductor Cables	Diameter 4.5-40 mm, up to 4.5 mm insulation		WIREFOX-D 40
<b>Crimping Tools</b>			
<b>Crimp</b>	<b>Conductor Size</b>	<b>Crimp Shape</b>	<b>Description</b>
	0.14-6 mm <sup>2</sup>	Square	CRIMPFOX CENTRUS 6S
	0.14-10 mm <sup>2</sup>	Square	CRIMPFOX CENTRUS 10S
	0.14-10 mm <sup>2</sup>	Trapezoid	CRIMPFOX DUO 10
<b>Assembling Tools</b>			
<b>Assemble</b>	<b>Tool</b>	<b>Description</b>	<b>Order #</b>
	Torque Screw Driver, Manual, Accuracy as per EN ISO 6789 Standard, Adjustable from 0.3 - 1.2 Nm	TSD-M 1,2NM	1212224
	Torque Screw Driver, Manual, Accuracy as per EN ISO 6789 Standard, Adjustable from 1.2 - 3 Nm	TSD-M 3NM	1212225
	Torque Screw Driver, Manual, Accuracy as per EN ISO 6789 Standard, Adjustable from 3 - 6 Nm	TSD-M 6NM	1212226
	Micro Screwdriver, Flat Blade, Size: 0.4 x 2.0 mm x 60 mm Long Shaft, 2-Component Grip, with Non-Slip Grip and Twist Cap	SZS 0,4X2,0	1205202
	Actuation Tool, for ST Terminal Blocks, also Suitable for Use as a Bladed Screwdriver, Size: 0.6 x 3.5 x 100 mm, 2-Component Grip, with Non-Slip Grip	SZF 1-0,6X3,5	1204517
	Bit Screwdriver Set with Quick-Action Chuck, 17 Pieces of 89 mm Length Slotted, Crosshead (PZ and PH), Hex and Torx® bits	SF-M SET	1212543
	Bit Screwdriver Set with Quick-Action Chuck, 17 Pieces of 89 mm Length Slotted, Crosshead, Hex and Torx® bits	SF-M SET 2	1212756
	Cordless Screwdriver in Case, Including Battery, Charging Device 100-240 V, 2 bits, Two-Speed Gearbox, Forward/Reverse Running and 16-Stage Clutch Up to 450 rpm, Hexagonal Fast Connection.	SF-ASD 16 SET	1200295
	Combination Pliers, Notched Gripping Surface, VDE 1000 V AC/1500 V DC Tested, Size: 180 mm	UNIFOX-C VDE	1212202
	Offset Screwdriver Set, Hex, Metric, SW 1.5; 2; 2.5; 3; 4; 5; 6; 8, and 10 mm, with Ball Head, Matt: Chrome-Plated, 9-art, in Practical Holder	SF-LHEX SET	1212544
	Tape measure, 5 m	MEASURING TAPE 5M	1200298
	Actuation Tool, for all 2.5 mm <sup>2</sup> - 4.0 mm <sup>2</sup> spring cages	ST-BW	1207608
Needle-Nose Pliers with Blade, Notched Grip Area, VDE 1000 V AC/1500 V DC Tested	UNIFOX-P VDE	1212701	
Screwdrivers 7 piece, VDE-insulated, Flat blade 0.6 x 3.5, 0.8 x 4.0, 1.0 x 5.5; Phillips PH1, PH2; Pozidriv® + bladed PZSL 1, PZSL 2	SF-SL/PH/PZ-SL SET S-VDE	1212701	
<b>Bootlace Ferrules</b>			
<b>Ferrules</b>	<b>Size</b>	<b>Colour</b>	<b>Standard Pack</b>
	0.5 x 8 mm	White	100
	0.75 x 8 mm	Blue	100
	0.75 x 12 mm	Grey	100
	1 x 8 mm	Red	100
	1 x 12 mm	Red	100
	1.5 x 8 mm	Black	100
	1.5 x 18 mm	Black	100
	2.5 x 8 mm	Blue	100
	2.5 x 8 mm	Grey	100
	2.5 x 18 mm	Blue	100
	4 x 10 mm	Grey	100
	4 x 18 mm	Grey	100
	6 x 12 mm	Green	100
	6 x 18 mm	Green	100
	Twin 0.5 x 8 mm	White	100
	Twin 0.75 x 12 mm	Grey	100
	Twin 1 x 10 mm	Red	100
	Twin 1.5 x 12 mm	Black	100
	Twin 2.5 x 13 mm	Blue	100
	0.5 x 8 mm	White	1000
	0.75 x 8 mm	Blue	1000
	0.75 x 8 mm	Grey	1000
1 x 8 mm	Red	1000	
1.5 x 8 mm	Black	1000	
2.5 x 8 mm	Blue	500	
2.5 x 8 mm	Grey	500	

# Cable Duct and Din Rail

## Cable Duct

Height (mm)	Width (mm)	Length (m)	Colour	Quantity Per Box	Description	Order #
25 mm	25 mm	2m	Gray	25	CD 25x25	3240187
40 mm	25 mm	2m	Gray	24	CD 25x40	3240188
60 mm	25 mm	2m	Gray	15	CD 25x60	3240191
80 mm	25 mm	2m	Gray	10	CD 25x80	3240191
40 mm	40 mm	2m	Gray	25	CD 40x40	3240189
60 mm	40 mm	2m	Gray	20	CD 40x60	3240192
80 mm	40 mm	2m	Gray	10	CD 40x80	3240198
100 mm	40 mm	2m	Gray	10	CD 40x100	3240294
40 mm	60 mm	2m	Gray	20	CD 60x40	3240190
60 mm	60 mm	2m	Gray	12	CD 60x60	3240193
80 mm	60 mm	2m	Gray	10	CD 60x80	3240199
100 mm	60 mm	2m	Gray	8	CD 60x100	3240263
60 mm	80 mm	2m	Gray	10	CD 80x60	3240194
80 mm	80 mm	2m	Gray	6	CD 80x80	3240200
100 mm	80 mm	2m	Gray	8	CD 80x100	3240264
60 mm	100 mm	2m	Gray	8	CD 100x60	3240195
80 mm	100 mm	2m	Gray	6	CD 100x80	3240201
100 mm	100 mm	2m	Gray	6	CD 100x100	3240205



## DIN Rail

Length (m)	Quantity Per Box	Description	Long Description	Order #
2m	10	NS 35/7,5 PERF 2000MM	Steel, Galvanized, Passivated with a Thick Layer	0843103
2m	10	NS 35/7,5 UNPERF 2000MM	Steel, Galvanized, Passivated with a Thick Layer	0843101
2m	10	NS 35/15 PERF 2000MM	Steel, Galvanized, Passivated with a Thick Layer	0843113
2m	10	NS 35/15 UNPERF 2000MM	Steel, Galvanized, Passivated with a Thick Layer	0843112
2m	10	NS 15 PERF 2000MM	Steel, Galvanized, Passivated with a Thick Layer	1401682



## DIN Rail Accessories

Quantity Per Box	Description	Long Description	Order #
100	NS 35/ 7,5 CAP	DIN Rail End Piece, for DIN Rail NS 35/7.5	1206560
100	NS 35/ 15 CAP	DIN Rail End Piece, for DIN Rail NS 35/15	1206573
50	CLIPFIX 35	Quick Mounting End Clamp for NS 35/7,5 DIN Rail or NS 35/15 DIN Rail	3022218
50	CLIPFIX 35-5	Quick Mounting End Clamp for NS 35/7,5 DIN Rail or NS 35/15 DIN Rail	3022276
10	E/AL-NS 35	Aluminium End Clamp, for NS35 Fixed with 2 Screws	1201662
50	E/NS 35 N	End Clamp for NS 35/7,5 DIN Rail or NS 35/15 DIN Rail	0800886
50	CLIPFIX 15	Quick Mounting End Clamp for NS 15	3022263



## DIN Rail and Cable Duct Cutters

Description	Long Description	Order #
PPS COMPACT	Profile cutter for cutting standard DIN rails NS 35/7,5 and NS 35/15 to length (see 1105211 for measuring bar)	1104980
PPS COMPACT/ SCALE-SET I/M	Measuring bar version: inches/metric	1105211
PPS BASIC I/M	Profile cutter for cutting standard DIN rails to length, NS 15 / NS 35/7,5 / NS 35/15, and for cutting the NLS-CU 3/10 neutral busbar to length, with inch/metric measuring rail	1207585
PPS STANDARD M	Profile cutter for cutting and stamping holes in standard DIN rails, NS 32 / NS 35/7,5 / NS 35/15, and for cutting the NS 15 and NLS-CU 3/10 neutral busbar to length. Can accommodate 2 stamping bits, with metric measuring rail, delivered without stamping bits	1206175
PPS CLASSIC M	Profile cutter for cutting to length and stamping holes in standard DIN rails, NS 32 / NS 35/7,5 / NS 35/15, and for cutting the NS 15 and NLS-CU 3/10 neutral busbar to length. Can accommodate 2 stamping bits, bits easily exchangeable, with metric measuring rail, delivered without stamping bits	1206243
PPS CD M	Cable duct cutter for burr-free cutting cable ducts and their covers. can be used up to a width of 125 mm	1207569
CUTFOX-CD	Cable duct cutter, for cutting plastic cable ducts, covers, and profiles, 45° limit stop also for bevel cuts, 75 mm cutting length	1212474

PPS BASIC I/M



PPS CD M



CUTFOX-CD



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**Step 2:** Select and install Phoenix Contact products in accordance with our recommendations.

**Step 3:** Make sure all electronics are powered and protected with appropriate Phoenix Contact power supplies and surge protection.

For participation in the Phoenix Contact Complete Cabinet Confidence Lifetime Warranty (LW) program, customer registration is required. Certain restrictions apply. Coverage of products in the program is limited to Phoenix Contact products sold in Australia. Improperly applied or installed products may void warranty.

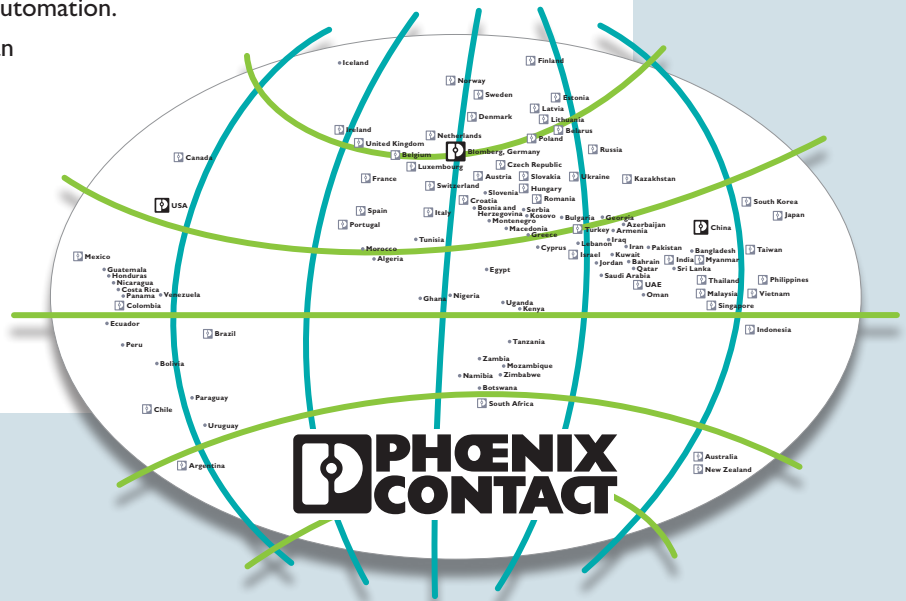
To review the Lifetime Warranty Terms & Conditions, go to: [www.phoenixcontact.com.au/LW](http://www.phoenixcontact.com.au/LW)



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