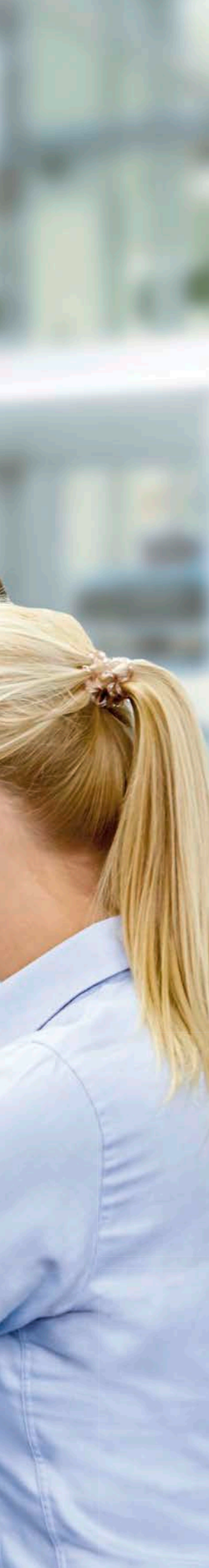


# Quick Reference Guide

2026







## 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:

### **Price Guarantee**

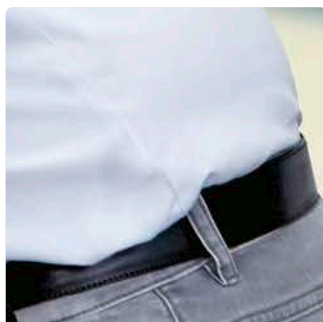
The perfect combination of price and features.

### **Availability Guarantee**

We help you build effective and efficient systems fast by providing you products right when you need them.

### **Industry 4.0/IoT Readiness**

Be ready now and for the future with Phoenix Contact.





## Value-Added Centre

- Order complete solutions fully assembled under a single article number.\*
- Complete terminal strips assembled, marked and with all accessories installed.
- Ready to install and connect.
- Increase efficiency of procurement and stock management processes.
- A flexible and efficient approach to 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.

\* Get in contact with us for these type of orders.

# Establishment of 4 Core business

## 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.

## Cabinet Efficiency

Efficiency in cabinet building begins with Phoenix Contact's modular and scalable solutions. From design to installation, our innovative products simplify processes, shorten assembly times, and ensure consistent quality across every project.

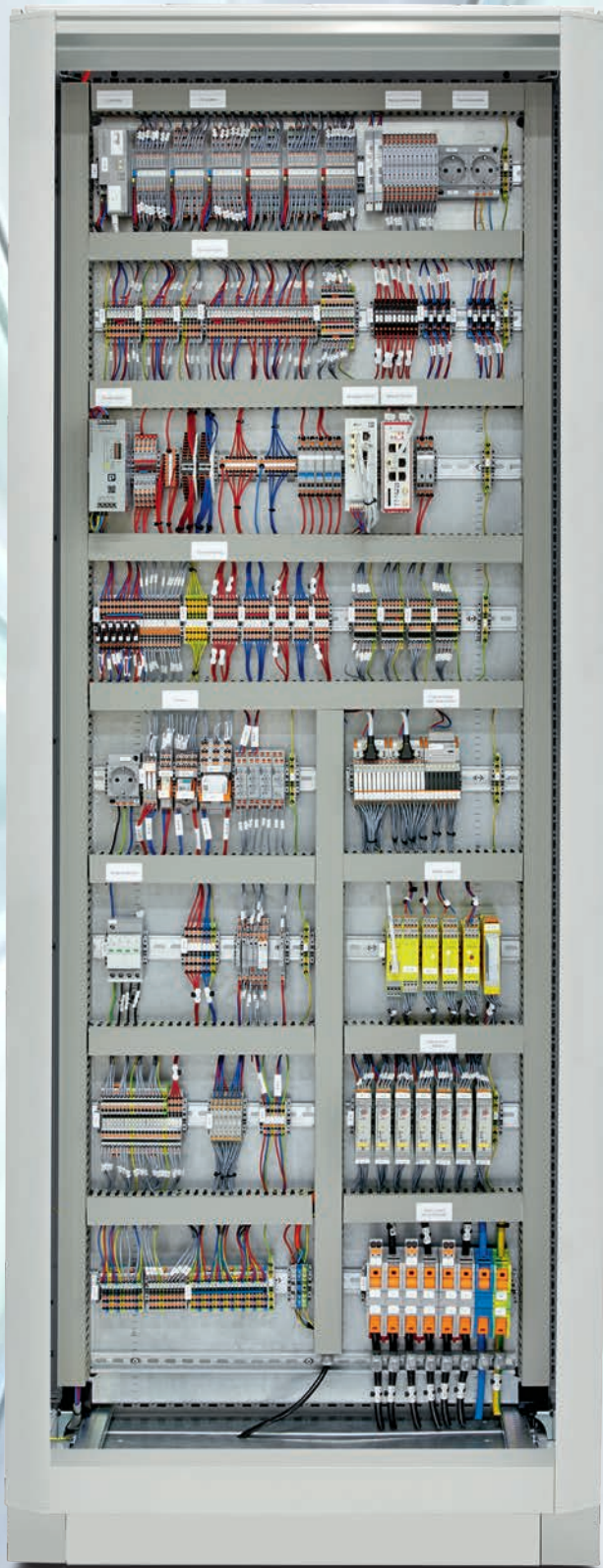
## Automation

From single components to fully integrated systems, Phoenix Contact delivers reliable solutions powered by cutting-edge technologies in industrial networking, automation, safety, switching, signal conversion, and motor control, driving innovation and high performance across every application.

## Connectivity

Discover our wide range of new products for the transmission of signals, data, and power. Reliable and cost effective solutions including Circular Connectors, Data ports, Connectors for Energy Storage and many more.

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# Power Supplies

Power Reliability



**Power supply**  
AC Input to DC Output



Download:  
[Power Reliability Catalogue](#)

Do you need a single-phase or a three-phase power supply?			Basic Functionality: Compact with standard functionality	Standard Functionality: Robust & Reliable with standard functionality	Maximum Functionality: Powerful, and with superior functionality					
What is the output DC voltage?										
What is your output current (Amps)?										
What functionality do you require?										
Have you considered surge protection with a Lifetime Warranty?										
Resulting Phoenix Contact part number										
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	QUINT-4-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	2.5A	STEP3-PS/1AC/12DC/2.5/PT	Push-in	1170953				
			2.5A	UNO2-PS/1AC/12DC/30W/PT	NEW Push-in	1399935				
			2.5A	QUINT4-PS/1AC/12DC/2.5/PT	Push-in	2904605				
		15 V DC	3A	3A	STEP-PS/ 1AC/12DC/3	Screw	2868570			
				5A	STEP-PS/ 1AC/12DC/5	Screw	2868583			
				5A	UNO2-PS/1AC/12DC/60W/PT	NEW Push-in	1399936			
			24 V DC	1.3A	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		
				48 V DC	1.25A	1.25A	STEP3-PS/1AC/48DC/1.25/PT	Push-in	1110043	
						1.25A	UNO-PS/1AC/48DC/100W	Screw	2902997	
						1.25A	UNO2-PS/1AC/48DC/240W	Screw	1110155	
					110 V DC	4A	4A	QUINT4-PS/1AC/110DC/4	Screw	2904613
							5A	TRIO3-PS/3AC/24DC/5	NEW Push-in	1362783
							5A	QUINT4-PS/3AC/24DC/5	Screw	2904620
	10A	ESSENTIAL-PS/3AC/24DC/240W/EE					Screw	1018291		
	10A	TRIO3-PS/3AC/24DC/10					NEW Push-in	1159042		
	3-Phase	24 V DC			10A	QUINT4-PS/3AC/24 DC/10	Screw	2904621		
					20A	ESSENTIAL-PS/3AC/24DC/480W/EE	Screw	1018299		
					20A	TRIO3-PS/3AC/24DC/20	NEW Push-in	1159044		
					20A	QUINT4-PS/3AC/24DC/20	Screw	2904622		
					20A	ESSENTIAL-PS/3AC/24DC/960W/EE	Screw	1018294		
					40A	TRIO3-PS/3AC/24DC/40	NEW Push-in	1159045		
					40A	QUINT4-PS/3AC/24DC/40	Screw	2904623		
			40A	ESSENTIAL-PS/3AC/24DC/1920W/EE	Screw	1018295				
			20A	QUINT4-PS/3AC/48DC/20	Screw	2904627				
			20A	TRIO3-PS/3AC/48DC/20	NEW Push-in	1362784				
		48 V DC	20A	20A	QUINT4-PS/3AC/48DC/20	Screw	2904627			
				20A	TRIO3-PS/3AC/48DC/20	NEW Push-in	1362784			

## QUINT4 Power Supplies



## TRIO Power Supplies



## UNO Power Supplies



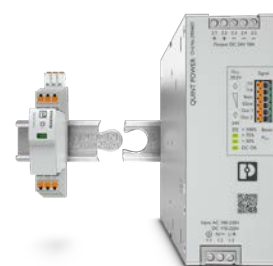
## Essential Power Supplies



## STEP Power Supplies



## Perfect Team!





# Power Supplies - DC to DC Converters

Power Reliability



Power supply  
DC Input to DC Output



Download:  
[Power Supply Solutions Catalogue](#)

Power Reliability

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

## QUINT4 DC-DC Converters



Input Voltage	Output voltage	Output Current	Description	Connection Technology	Order #
350 - 900 V DC	24 V DC	2.5A	UNO-PS/350-900DC/24DC/60W	Screw	<a href="#">2906300</a>
1500 V DC	24 V DC	1.5A	TRIO-PS-2G/1500DC/24DC/1.5	Push-in	<a href="#">1107892</a>
1500 V DC	24 V DC	8A	TRIO-PS-2G/1500DC/24DC/8	Push-in	<a href="#">1075240</a>

## DC-DC Converters for Photovoltaics



## Recommended Surge Protection for increased availability

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	<a href="#">2907928</a>
	230 V AC	10 kA	26A	PLT-SEC-T3-230-FM-UT*	Screw	<a href="#">2907919</a>
	230 V AC	40 kA	NA	VAL-SPP-T2-275-1+1-UT	Screw	<a href="#">1466211</a>
	230 V AC	40 kA	NA	VAL-SPP-T2-275-1+1-UT-R*	NEW Screw	<a href="#">1466597</a>
3-phase	230/400 V AC	40 kA	NA	VAL-SPP-T2-275-3+1-UT	NEW Screw	<a href="#">1466213</a>
	230/400 V AC	40 kA	NA	VAL-SPP-T2-275-3+1-UT-R*	NEW Screw	<a href="#">1466214</a>

Perfect Team!



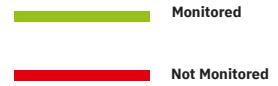
Power Supply Input Voltage	Voltage	Max Surge Current (IMAX)	Load Current	Type Description	Connection Technology	Order #
48-110 V DC	120 V AC / DC	10 kA	26A	PLT-SEC-T3-120-FM-PT*	Push-in	<a href="#">2907927</a>
	120 V AC / DC	10 kA	26A	PLT-SEC-T3-120-FM-UT*	Screw	<a href="#">2907918</a>
48 V DC	60 V AC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



# Redundancy

## Power Reliability

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.



**QUINT SINGLE-ORING active redundancy module (S-ORING)**  
Fully monitored single channel MOSFET technology redundancy.

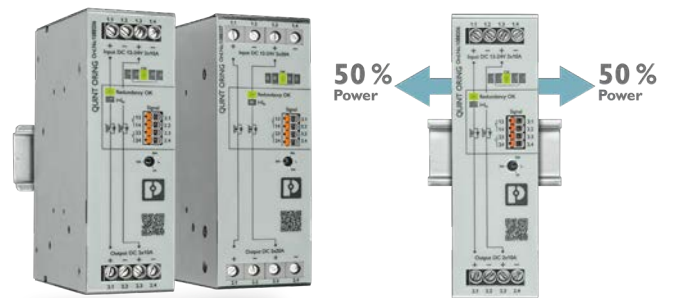
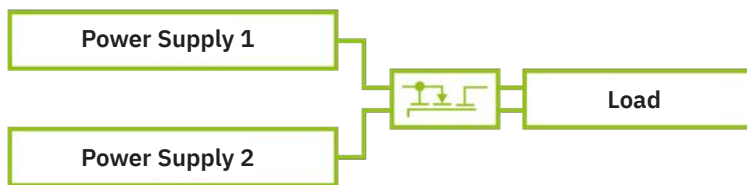


Nominal Input-Output Voltage	Input Current	Output Current	Description	OVP Limit	Order #
12-24 V DC	1 x 40A	1 x 40A	QUINT4-S-ORING/12-24DC/1X40	Standard	<a href="#">2907752</a>
12-24 V DC	1 x 40A	1 x 40A	QUINT4-S-ORING/12-24DC/1X40/VP	<30 V DC	<a href="#">1043418</a>
12-24 V DC	1 x 40A	1 x 40A	QUINT4-S-ORING/12-24DC/1X40/+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



**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	<a href="#">1088206</a>
12-24 V DC	2 x 20A	2 x 20A (Redundancy) 1 x 40A (Increased Power)	QUINT4-ORING/12-24DC/2X20/2X20	<a href="#">1088207</a>
18-24 V DC	2 x 40A	2 x 40A (Redundancy) 1 x 80A (Increased Power)	QUINT-ORING/24DC/2X40/1X80	<a href="#">2902879</a>

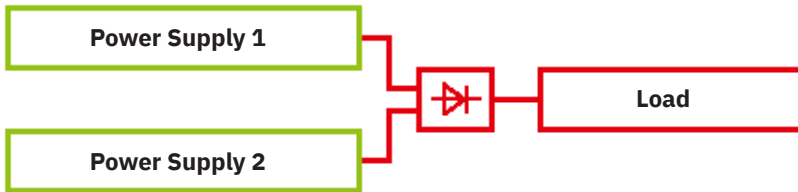




## Redundancy

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.

### Power Reliability



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	<a href="#">2907719</a>	
48 V DC	2 x 20A	2 x 20A (Redundancy) 1 x 40A (Increased Power)	QUINT4-DIODE/48DC/2X20/1X40	<a href="#">2907720</a>	
12-24 V DC	2 x 20A	2 x 20A (Redundancy) 1 x 40A (Increased Power)	TRIO2-DIODE/12-24DC/2X20/1X40	<a href="#">2907379</a>	
12-24 V DC	2 x 10A	2 x 10A (Redundancy) 1 x 20A (Increased Power)	TRIO2-DIODE/12-24DC/2X10/1X20	<a href="#">2907380</a>	
12-48 V DC	2 x 10A	"1 x2 x 10A (Redundancy)	PS-EE-2G-DIODE/12-48DC/2X10/SC	<b>NEW</b> <a href="#">1584245</a>	
12-48 V DC	2 x 20A	20A (Increased Power)"	PS-EE-2G-DIODE/12-48DC/2X20/SC	<b>NEW</b> <a href="#">1584246</a>	
5-24 V DC	2 x 10A	"1 x2 x 20A (Redundancy)	UNO-DIODE/5-24DC/2X10/1X20	<a href="#">2905489</a>	
5-24 V DC	2 x 5A	40A (Increased Power)"	STEP-DIODE/5-24DC/2X5/1X10	<a href="#">2868606</a>	

### 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, Ex-rated and SIL3 rated and extreme temperature range.



Nominal Input-Output Voltage	Output Voltage	Output Current	Description	OVP Limit	Order #	
1 Phase / 230V AC	24 V DC	10A	QUINT4-PS/1AC/24DC/10/+	<30 V DC	<a href="#">2904616</a>	
		20A	QUINT4-PS/1AC/24DC/20/+	<30 V DC	<a href="#">2904617</a>	
		40A	QUINT4-PS/1AC/24DC/40/+	<30 V DC	<a href="#">2904618</a>	
24 V DC	24 V DC	20A	QUINT4-PS/24DC/24DC/20/SC/+	<30 V DC	<a href="#">1046881</a>	



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UPS Energy Storage Selection Guides (DC UPS Continued)

	UPS-BAT/LI-ION				UPS-BAT/VRLA-WTR	
W x H x D in mm	87 x 197 x 119	135 x 202 x 110	135 x 202 x 110	133 x 197 x 119	172 x 177 x 178	358 x 174 x 169
Capacity	64 Wh / 2.5 Ah	128 Wh / 5 Ah	189 Wh / 7.4 Ah	284 Wh / 11.1 Ah	13 Ah	26 Ah
Type	UPS-BAT/LI/24DC/64WH	UPS-BAT/LI/24DC/128WH	UPS-BAT/LI/24DC/189WH	UPS-BAT/LI/24DC/284WH	UPS-BAT/VRLA-WTR/24DC/13AH	UPS-BAT/VRLA-WTR/24DC/26AH
Order #	<a href="#">1460921</a> <b>NEW</b>	<a href="#">1396415</a>	<a href="#">1460922</a> <b>NEW</b>	<a href="#">1460923</a> <b>NEW</b>	<a href="#">2320416</a>	<a href="#">2320429</a>

Buffer times for your QUINT DC UPS with the following energy storage devices: Lithium Battery Module

Select your energy storage device for 24 V DC applications here. Example: 7 A is to be buffered for 45 minutes.

QUINT4-UPS/24DC/24DC/10A and UPS-BAT/LI/24DC/189WH

Load Current	Buffer Time																								
	Minutes															Hours									
	1	5	6	7	8	9	10	15	20	25	30	35	40	45	55	1	2	3	4	5	6	7	8	9	10
1 A																									
2 A																									
3 A																									
5 A																									
7 A																									
10 A																									
15 A																									
20 A																									
25 A																									
30 A																									
35 A																									
40 A																									

The data is based on an ambient temperature of +25°C at the start of use.

Buffer times for your QUINT DC UPS with the following energy storage devices: VRLA-WTR (WTR: Wide Temperature Range)

Select your energy storage device for 24 V DC applications here. Example: 20 A is to be buffered for 30 minutes.

QUINT4-UPS/24DC/24DC/20A and UPS-BAT/VRLA-WTR/24DC/26AH

Load Current	Buffer Time																									
	Minutes															Hours										
	10	12	15	20	25	30	35	40	45	50	55	1	2	3	4	5	6	7	8	9	10	12	14	16	18	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																										

The data is based on an ambient temperature of +25°C at the start of use.



# UPS Energy Storage Selection Guides (DC UPS Continued)

Power Reliability

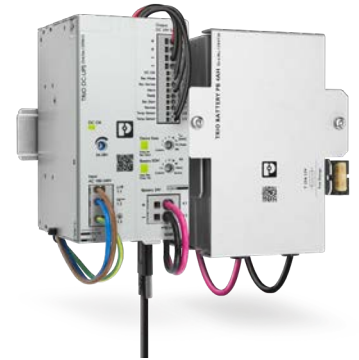


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[Power Supply Solutions Catalogue](#)

## DC UPS with Integrated Power Supply



Phase	Output Voltage	Output Current	Description	Applicable Battery Size	Comms	Order #
1-Phase	24 VDC	5A	TRIO3-UPS/1AC/24DC/5/485 <b>NEW</b>	1.2 to 12 Ah	None	<a href="#">1359613</a>
		5A	TRIO3-UPS/1AC/24DC/5/485-USB <b>NEW</b>	1.2 to 12 Ah	USB	<a href="#">1359612</a>
		10A	TRIO3-UPS/1AC/24DC/10 <b>NEW</b>	4 to 110Ah	None	<a href="#">1359610</a>
		10A	TRIO3-UPS/1AC/24DC/10/485-USB <b>NEW</b>	1.2 to 110Ah	USB	<a href="#">1359604</a>
3-Phase	24 VDC	20A	TRIO-UPS-2G/1AC/24DC/20	4 to 40 Ah	USB	<a href="#">1105556</a>
		20A	TRIO-UPS-2G/3AC/24DC/20	4 to 40Ah	USB	<a href="#">2906367</a>



Buffer times for your TRIO DC UPS with the following PB energy storage devices: refer to page 13

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/7AH

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																								2x	2x					
5 A																							2x	2x						
7 A																						2x	2x	2x						
10 A																						2x	2x							
15 A																						2x	2x							
20 A																						2x	2x							

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

## UPS Energy Storage Selection Guides (DC UPS Continued)

	TRIO BAT			
W x H x D in mm	52 x 141 x 108	115 x 154 x 113	164 x 159 x 114	233 x 159 x 114
Capacity	1.2 Ah <b>NEW</b>	4 Ah <b>NEW</b>	7 Ah <b>NEW</b>	12 Ah <b>NEW</b>
Type	TRIO-BAT/PB/24DC/1.2AH	TRIO-BAT/PB/24DC/4AH	TRIO-BAT/PB/24DC/7AH	TRIO-BAT/PB/24DC/12AH
Order #	<a href="#">1394729</a>	<a href="#">1394730</a>	<a href="#">1384031</a>	<a href="#">1394727</a>

Buffer times for TRIO DC UPS with the TRIO battery module

Select the battery module for your TRIO DC UPS here.

Example: 5 A is to be buffered for 10 minutes.

→ TRIO-UPS-2G/1AC/24DC/5 and TRIO-BAT/PB/24DC/4AH

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

The data is based on an ambient temperature of +25°C at start of use.



# Uninterruptible Power Supplies (UPS)

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

## Power Reliability

AC Power - 1 kVA Capacity - ONLINE 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 - 1 kV A	QUINT4-UPS/1 AC/1 AC/1 kV A	2320283

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
Capacity	4 Ah
Type	UPS-BAT/PB/24DC/4AH
Order #	1274117

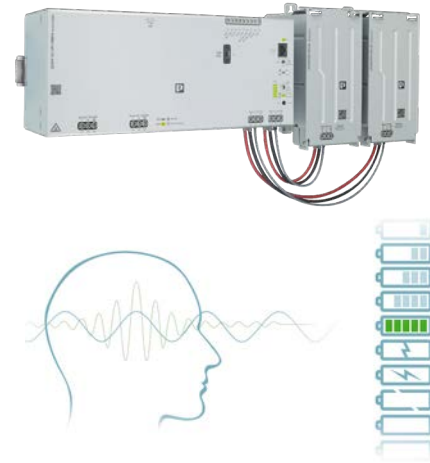
UPS-BAT/PB	
W x H x D in mm	135 x 202 x 110
Capacity	7 Ah
Type	UPS-BAT/PB/24DC/7AH
Order #	1274118

UPS-BAT/PB	
W x H x D in mm	202 x 202 x 110
Capacity	12 Ah
Type	UPS-BAT/PB/24DC/12AH
Order #	1274119

UPS-BAT/PB	
W x H x D in mm	155 x 168 x 183
Capacity	20 Ah
Type	UPS-BAT/PB/24DC/20AH
Order #	1348516

UPS-BAT/PB	
W x H x D in mm	333 x 173 x 199
Capacity	40 Ah
Type	UPS-BAT/PB/24DC/40AH
Order #	1354641

UPS-BAT/PB	
W x H x D in mm	350 x 214 x 332
Capacity	110 Ah <b>NEW</b>
Type	UPS-BAT/PB/24DC/110AH
Order #	1474660



### Buffer times for your QUINT AC UPS/1 kVA with PB battery module:

Select your battery module for your QUINT AC UPS/1 kVA here. You always need two PB battery modules of the same capacity.

Example: 400 W is to be buffered for 50 minutes.

- ➔
- ➔ QUINT4-UPS/24DC/24DC/10A and UPS-BAT/PB/24DC/20AH

Load Current	Buffer Time																							
	Minutes										Hours													
	1	2	3	4	5	8	10	15	20	25	30	40	50	1	1.5	2	3	4	6	9	10	15	20	24
100 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x
200 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x
300 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x
400 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x
500 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x
600 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x
700 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x
800 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x
900 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x

2x: Here, two battery modules of the same capacity are always required. The data is based on an ambient temperature of +25°C at start of use.

UPS-BAT/VRLA-WTR	
W x H x D in mm	172 x 177 x 178
Capacity	13 Ah
Type	UPS-BAT/VRLA-WTR/24DC/13AH
Order #	2320416

UPS-BAT/VRLA-WTR	
W x H x D in mm	358 x 174 x 169
Capacity	26 Ah
Type	UPS-BAT/VRLA-WTR/24DC/26AH
Order #	2320429

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

Select your energy storage device for your QUINT AC UPS/1KVA (120 / 230 V application) here. Example: 300 W is to be buffered for three hours.

- ➔
- ➔ QUINT4-UPS/1AC/1AC/1KVA and 2 x UPS-BAT/VRLA-WTR/24DC/26AH

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

2x: There are always two battery modules of the same capacity that are required. The data is based on an ambient temperature of +25°C at the start of use.



Download: [Power Supply Solutions Catalogue](#)

**AC Power - 1.5 & 2.5 kVA Capacity - ONLINE 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	120 V AC - 1.5 kVA	QUINT-HP-UPS/ 120AC/1.5kVA/PT <b>NEW</b>	<b>1136804</b>
230 V AC	230 V AC - 1.5 kVA	QUINT-HP-UPS/ 230AC/1.5kVA/PT <b>NEW</b>	<b>1136811</b>
120 V AC	120 V AC - 2.5 kVA	QUINT-HP-UPS/ 120AC/2.5kVA/PT <b>NEW</b>	<b>1136813</b>
230 V AC	230 V AC - 2.5 kVA	QUINT-HP-UPS/ 230AC/2.5kVA/PT <b>NEW</b>	<b>1136815</b>

What type of energy-storage device:

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

**Energy-Storage Type**

**QUINT HP-BAT 7Ah**



	QUINT HP-UPS	IQ Technology <sup>IQ</sup> Designed by Phoenix Contact	QUINT HP-BAT	QUINT HP-UPS	IQ Technology <sup>IQ</sup> Designed by Phoenix Contact	QUINT HP-BAT
W x H x D in mm	150 x 240 x 143	150 x 240 x 143	156.5 x 354 x 143	188 x 240 x 143	188 x 240 x 143	156.5 x 354 x 143
	120 AC / 1.5kVA <b>NEW</b>	230 AC / 1.5kVA <b>NEW</b>	7 Ah <b>NEW</b>	120 AC / 2.5kVA <b>NEW</b>	230 AC / 2.5kVA <b>NEW</b>	7 Ah <b>NEW</b>
No. of battery modules			1x 2x 3x 4x 5x			2x 4x 6x 8x 10x
Type	QUINT-HP-UPS/ 120AC/1.5kVA/PT	QUINT-HP-UPS/ 230AC/1.5kVA/PT	QUINT-HP-BAT/ PB/48DC/7.0AH/PT	QUINT-HP-UPS/ 120AC/2.5kVA/PT	QUINT-HP-UPS/ 230AC/2.5kVA/PT	QUINT-HP-BAT/ PB/48DC/7.0AH/PT
Item no.	<a href="#">1136804</a>	<a href="#">1136811</a>	<a href="#">1133819</a>	<a href="#">1136813</a>	<a href="#">1136815</a>	<a href="#">1133819</a>

### Buffer times for QUINT HP UPS/1.5 kVA with Pb battery module:

Select the battery module for your QUINT HP UPS/1.5 kVA (120/230 V application) here.

Example: 1000 W is to be buffered for 15 minutes.

- ➔ QUINT-HP-UPS/230AC/1.5kVA/PT
- ➔ 2x QUINT-HP-BAT/PB/48DC/7.0AH/PT

Load Current	Buffer Time																							
	Minutes						Hours																	
	1	2	3	5	7	8	9	10	15	20	30	40	45	50	1	2	3	4	5	6	8	9	10	12
100 W	1x	1x	1x	1x	1x	1x	1x	1x	1x	1x	1x	1x	1x	1x	1x	1x	2x	2x	3x	3x	4x	4x	5x	5x
250 W	1x	1x	1x	1x	1x	1x	1x	1x	1x	1x	1x	1x	2x	2x	2x	3x	4x	5x						
500 W	1x	1x	1x	1x	1x	1x	1x	1x	1x	2x	2x	2x	2x	3x	4x	5x								
800 W	1x	1x	1x	1x	1x	1x	1x	2x	2x	2x	3x	3x	4x	4x	5x									
1000 W	1x	1x	1x	1x	1x	2x	2x	2x	2x	2x	3x	4x	4x	5x										
1150 W	1x	1x	1x	1x	2x	2x	2x	2x	2x	3x	4x	4x	5x											
1350 W	1x	1x	1x	2x	2x	2x	2x	2x	2x	3x	3x	4x	5x											

The data is based on an ambient temperature of +25°C at start of use.

### Buffer times for QUINT HP UPS/2.5 kVA with Pb battery module

Select the battery module for your QUINT HP UPS/2.5 kVA (120/230 V application) here.

Example: 1750 W is to be buffered for 45 minutes.

- ➔ QUINT-HP-UPS/230AC/2.5kVA/PT
- ➔ 8x QUINT-HP-BAT/PB/48DC/7.0AH/PT

Load Current	Buffer Time																						
	Minutes					Hours																	
	1	2	3	5	7	8	9	10	15	20	30	40	45	50	1	2	3	4	5	6	8	9	10
250 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	4x	4x	6x	6x	8x	8x	10x	10x
500 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	4x	4x	4x	6x	8x	10x						
1000 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	4x	4x	4x	6x	8x	10x							
1250 W	2x	2x	2x	2x	2x	2x	2x	2x	2x	4x	4x	6x	6x	6x	8x	10x							
1500 W	2x	2x	2x	2x	2x	2x	2x	4x	4x	4x	6x	6x	6x	8x	10x								
1750 W	2x	2x	2x	2x	2x	2x	4x	4x	4x	4x	6x	8x	8x	10x									
2000 W	2x	2x	2x	2x	2x	4x	4x	4x	4x	4x	6x	8x	8x	10x									
2250 W	2x	2x	2x	2x	4x	4x	4x	4x	4x	6x	8x	10x	10x										

The data is based on an ambient temperature of +25°C at start of use.

# AC Power - 750 VA Capacity - OFFLINE UPS with Internal 4AH UPS Battery

**For use with AC QUINT Power Supply**

Select UPS

What input voltage?

What output power/current?


**TRIO UPS 1 Phase with USB Interface**


TRIO AC UPS with INCLUDED 4AH UPS Battery (Additional External 4AH UPS Battery may also be added for increased capacity)


Input Voltage	Output	Description	Order #
98 - 138 VAC	120 V AC / 750 VA	TRIO-UPS-2G/1AC/1AC/120V/750VA	<a href="#">2905908</a>
184 - 264 VAC	230 V AC / 750VA	TRIO-UPS-2G/1AC/1AC/230V/750VA	<a href="#">2905909</a>

+

Additional optional 4AH UPS-BAT/PB/24DC/4AH (1274117) External UPS Battery if required

 UPS Module

 Energy Storage



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

**Buffer times for TRIO AC UPS:**

2x: An additional energy storage device of the same capacity (4 Ah) of type UPS-BAT/PB/24DC/4AH (1274117) is required in this case

Performance	Buffer Time														
	Minutes													Hours	
	1	1.5	2	4	6	8	10	15	20	30	40	50	1	1.5	
50 W													2x	2x	2x
100 W													2x	2x	2x
150 W									2x	2x	2x				
200 W								2x	2x	2x					
250 W						2x	2x	2x							
300 W					2x	2x	2x								
400 W				2x	2x	2x									
500 W			2x	2x	2x										
600 W		2x	2x	2x											



Power Reliability

## Surge Protection - Power

FLT-SEC Series



FLT-MB Carbon Spark Gap series

NEW



VAL-SPP Series

NEW



PLT-SEC-T3 Series






Network Type		Voltage	AS/NZS 1768		Category		Surge Protection Device		Relay Alarm Output	Order #
			C	B	A	+ FUSE	Description	Features		
3-Phase	N / E Separated  TN-S / TT	230V / 400V	✓	✓	✓		FLT-MB-T1-264/25-3+1-UT-R	Iimp = 25kA Carbon Spark Gap	✓	<a href="#">1461304</a>
			✓	✓			FLT-SEC-P-T1-3S-264/50-FM	Iimp = 50kA	✓	<a href="#">2909589</a>
			✓	✓		✓	FLT-SEC-H-T1-3C-264/25-FM	Inbuilt SPD Fuse	✓	<a href="#">2905871</a>
							FLT-SEC-P-T1-N/PE-350/100-FM	ADD N-E SPD Module	✓	<a href="#">2905472</a>
			✓	✓			FLT-SEC-P-T1-3S-350/25-FM	Iimp = 25kA / Imax = 100kA	✓	<a href="#">2905421</a>
			✓	✓			FLT-SEC-T1+T2-3S-350/25-FM	T1 and T2 Special SPD	✓	<a href="#">2905470</a>
			✓	✓			VAL-MS-3+1-100-320-A	Imax = 100kA	✓	<a href="#">1274064</a>
			✓	✓			VAL-ME-3+1-100-275-A	Imax = 100kA	✓	<a href="#">1106017</a>
			✓	✓	✓		VAL-MS-3+1-50-275-A	Imax = 50kA	✓	<a href="#">1105734</a>
			✓	✓	✓		VAL-SEC-T2-3S-350-FM	Imax = 40kA / Small Size	✓	<a href="#">2905340</a>
			✓	✓	✓		VAL-MS 230/3+1 FM-PT	Imax = 40kA / Push-in	✓	<a href="#">1248960</a>
		✓		VAL-SPP-T2-275-3+1-UT-R	NEW Imax = 40kA / Low Price	✓	<a href="#">1466214</a>			
3-Phase	N-E Combined (MEN)  TN-C	230V / 400V	✓	✓	✓		FLT-MB-T1-264/25-3+1-UT-R	Iimp = 25kA Carbon Spark Gap	✓	<a href="#">1461302</a>
			✓	✓			FLT-SEC-P-T1-3C-264/50-FM	Iimp = 50kA	✓	<a href="#">2907390</a>
			✓	✓		✓	FLT-SEC-H-T1-3C-264/25-FM	Inbuilt SPD Fuse	✓	<a href="#">2905871</a>
			✓	✓			FLT-SEC-P-T1-3C-350/25-FM	Iimp = 25kA / Imax = 100kA	✓	<a href="#">2905419</a>
			✓	✓			FLT-SEC-T1+T2-3C-350/25-FM	T1 and T2 Special SPD	✓	<a href="#">2905469</a>
			✓	✓			VAL-MS-3-100-320-A	Imax = 100kA	✓	<a href="#">1274066</a>
			✓	✓	✓		VAL-MS-3-50-275-A	Imax = 50kA	✓	<a href="#">1105739</a>
			✓	✓	✓		VAL-SEC-T2-3C-350-FM	Imax = 40kA / Small Size	✓	<a href="#">2905339</a>
		✓		VAL-SPP-T2-335-3+0-UT-R	NEW Imax = 40kA / Low Price	✓	<a href="#">1466599</a>			
1-Phase	N / E Separated  TN-S / TT	230V	✓		✓		FLT-MB-T1-264/25-1+1-UT-R	Iimp = 25kA Carbon Spark Gap	✓	<a href="#">1461300</a>
			✓	✓			FLT-SEC-P-T1-1S-264/50-FM	Iimp = 50kA	✓	<a href="#">2907388</a>
			✓	✓		✓	FLT-SEC-H-T1-1C-264/25-FM	Inbuilt SPD Fuse	✓	<a href="#">2801615</a>
							FLT-SEC-P-T1-N/PE-350/100-FM	ADD N-E SPD Module	✓	<a href="#">2905472</a>
			✓	✓			FLT-SEC-P-T1-1S-350/25-FM	Iimp = 25kA / Imax = 100kA	✓	<a href="#">2905415</a>
			✓	✓			FLT-SEC-T1+T2-1S-350/25-FM	T1 and T2 Special SPD	✓	<a href="#">2905466</a>
			✓	✓			VAL-MS-1+1-100-320-A	Imax = 100kA	✓	<a href="#">1274067</a>
			✓	✓	✓		VAL-MS-1+1-50-275-A	Imax = 50kA	✓	<a href="#">1105737</a>
			✓	✓	✓		VAL-SEC-T2-1S-350-FM	Imax = 40kA / Small Size	✓	<a href="#">2905341</a>
			✓	✓	✓		VAL-SPP-T2-275-1+1-UT-R	NEW Imax = 40kA / Low Price	✓	<a href="#">1466212</a>
					✓	✓	PLT-SEC-T3-230-FM-PT	Push-in Terminals	✓	<a href="#">2907928</a>
		✓	✓	PLT-SEC-T3-230-FM-UT	Screw Terminals	✓	<a href="#">2907919</a>			
			✓	SFP2-1S-1-20A-230AC-UT	NEW EMC Filter plus Surge Protection	✓	<a href="#">1292605</a>			
1-Phase	N-E Combined (MEN)  TN-C	230V	✓				FLT-SEC-P-T1-1C-264/50-FM	Iimp = 50kA	✓	<a href="#">2907387</a>
			✓	✓		✓	FLT-SEC-H-T1-1C-264/25-FM	Inbuilt SPD FUSE	✓	<a href="#">2801615</a>
			✓	✓			FLT-SEC-P-T1-1C-350/25-FM	Imax = 100kA	✓	<a href="#">2905414</a>
			✓	✓			FLT-SEC-T1+T2-1C-350/25-FM	Special T1 & T2	✓	<a href="#">2905465</a>
			✓	✓			VAL-MS-1-100-320-A	Imax = 100kA	✓	<a href="#">1274072</a>
			✓	✓	✓		VAL-MS-1-50-275-A	Imax = 50kA	✓	<a href="#">1105740</a>
			✓	✓	✓		VAL-SPP-T2-275-1+0-UT-R	NEW Imax = 40kA / Low Price	✓	<a href="#">1466210</a>
DC	24VDC +/-GND	24V DC			✓		PLT-SEC-T3-24-FM-PT	Push-in 26A	✓	<a href="#">2907925</a>
					✓		PLT-SEC-T3-24-FM-UT	Screw-in 26A	✓	<a href="#">2907916</a>
					✓		TTC-6P-T3-24DC-PT-I	Push-in 6A	OPT.	<a href="#">1027586</a>
					✓		TTC-6P-T3-24DC-UT-I	Screw-in 6A	OPT.	<a href="#">1027584</a>



**i** Learn more: [MCR Configurator](#)

**i** Download: [Surge Protection Catalogue](#)

<input type="checkbox"/> What type of signal? Floating (e.g., Analogue 4-20mA / 0-10V / Relay etc), Common Reference (e.g., Digital), Antenna, or Data <input type="checkbox"/> Do you require a Push-in, Screw, RJ45, or D-Sub (9 pin) connection? <input type="checkbox"/> What is the Voltage or Frequency - Data Rate you require? <input type="checkbox"/> What is the Voltage or Frequency - Data Rate you require? <input type="checkbox"/> What width do you require? <input type="checkbox"/> Do you need a Direct or Floating (Indirect) Ground? <input type="checkbox"/> Pluggable or Non-Pluggable SPD? <input type="checkbox"/> Do you require SPD monitoring? None, Local, or Remote (Single or Dual Stage)? <input type="checkbox"/> Resulting Phoenix Contact part number										
TERMITRAB Complete (TTC)										
Signal	Connection	Voltage	Type	Width (mm)	Ground	Design	Monitoring	Description	Order #	TERMITRAB Complete (TTC)
Optimal Remote Signalling Set	Screw	10-36 VDC	FMRS	6.2mm x 2	Direct	NA	Remote Relay	TTC-6-FMRS-UT	<a href="#">2907811</a>	
	Push-in			6.2mm x 2		NA	Remote Relay	TTC-6-FMRS-PT	<a href="#">2907811</a>	
Floating (Analogue / Loop / Relay Contact)	Screw	12 VDC	1X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-1X2-12DC-UT-I	<a href="#">2908192</a>	
		24 VDC	1X2	6.2mm	Direct	Non-Pluggable	None	TTC-6-1X2-24DC-UT	<a href="#">2906798</a>	
		24 VDC	1X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-1X2-24DC-UT-I	<a href="#">2906809</a>	
		24 VDC	1X2	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-1X2-F-24DC-UT-I	<a href="#">1065317</a>	
		48 VDC	1X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-1X2-48DC-UT-I	<a href="#">2908194</a>	
	Push-in	5 VDC	3	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-3-5DC-PT-I	<a href="#">1061385</a>	
		12 VDC	1X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-1X2-12DC-PT-I	<a href="#">2908193</a>	
		24 VDC	1X2	3mm	Direct	Non-Pluggable	None	TTC-3-1X2-24DC-PT	<a href="#">2907325</a>	
		24 VDC	1X2	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-1X2-F-24DC-PT-I	<a href="#">1065318</a>	
		24VDC	2X2	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-2X2-24-PT-I	<b>NEW</b> <a href="#">1334595</a>	
Common Reference (Digital)	Screw	12 VDC	2X1	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-2X1-12DC-UT-I	<a href="#">2908201</a>	
		24 VDC	2X1	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-2X1-24DC-UT-I	<a href="#">2906810</a>	
		24 VDC	2X1	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-2X1-F-24DC-UT-I	<a href="#">1065319</a>	
		48 VDC	2X1	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-2X1-F-48DC-UT-I	<a href="#">2908208</a>	
	Push-in	24 VDC	2X1	3mm	Direct	Non-Pluggable	None	TTC-3-2X1-24DC-PT	<a href="#">2907326</a>	
		24 VDC	2X1	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-2X1-F-M-24DC-PT-I	<a href="#">2906794</a>	
		24 VDC	4X1	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-4X1-24-PT-I	<b>NEW</b> <a href="#">1334594</a>	
		48 VDC	2X1	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-2X1-48DC-PT-I	<a href="#">2908204</a>	
Data (1 Mbps)	Screw	12 VDC	HF	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-3-HF-M-12DC-UT-I	<a href="#">2906744</a>	
		12 VDC	HF	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-3-HF-F-M-12DC-UT-I	<a href="#">2906786</a>	
	Push-in	12 VDC	HF	6.2mm	Direct	Pluggable	Local (Flag)	TTC-6P-3-HF-M-24DC-PT-I	<a href="#">2906756</a>	
1 Mbps	Screw	12 VDC	HF	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-3-HF-F-M-24DC-PT-I	<a href="#">2906797</a>	
		24 VDC	HF	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-3-APL-24DC-UT-I	<b>NEW</b> <a href="#">1635592</a>	
High Current (6A)	Screw	24 VDC	HC	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-2-HC-M-24DC-UT-I	<a href="#">2906743</a>	
	Push-in	24 VDC	HC	6.2mm	Floating	Pluggable	Local (Flag)	TTC-6P-2-HC-M-24DC-PT-I	<a href="#">2906755</a>	
Add-on Fuse Holder	Screw	60 VDC	6.3A max	6.2mm	N/A	5x20mm Fuse	N/A	TTC-6-FC-UT	<a href="#">1054762</a>	
Coaxial Surge Protection (CN)										
Signal	Connection	Voltage	Frequency	Current	Ground	Design	Monitoring	Description	Order #	Coaxial (CN)
Coaxial / Antenna	N-Connector Socket - Socket	70 VDC	6dB	10A	Direct	Non-replaceable	None	CN-UB-70DC-6-BB	<a href="#">2803166</a>	
		280 VDC	3dB	5A	Direct	Replaceable GDT	None	CN-UB-280DC-3-BB	<a href="#">2801050</a>	
		<55 Vp	380-470 MHz	5A	Direct	Non-replaceable	None	CN-LAMBDA/4-0.47-BB	<a href="#">2800021</a>	
		<18 Vp	0.8-2.25 GHz	5A	Direct	Non-replaceable	None	CN-LAMBDA/4-2.25-BB	<a href="#">2801057</a>	
		<11 Vp	2.4-7.6 GHz	5A	Direct	Non-replaceable	None	CN-LAMBDA/4-5.9-BB	<a href="#">2838490</a>	
DATA / Communication Surge Protection (DT)										
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+	<a href="#">2881007</a>		
CAT 5-6 / 1 Gbps	RJ45	<5 VDC / 57 VDC PoE+	1.5A	Direct	Non-replaceable	None	D-LAN-CAT.5-HC	<a href="#">2800763</a>		
VDSL & Analogue / 50 Mbps	RJ45/12/11 & Screw	185 VDC / 130 VAC	380mA	Direct	Non-replaceable	None	DT-TELE-RJ45	<a href="#">2882925</a>		
RS-485	D-SUB (9 Pin)	12 VDC	380mA	Direct	Non-replaceable	None	DT-UFB-485/BS	<a href="#">2920612</a>		
RS-485	Push-in	12 VDC	600mA	Floating	Pluggable	Local (Flag)	TTC-6P-3-HF-F-M-24DC-PT-I	<a href="#">2906797</a>		
RS-485	Screw	12 VDC	600mA	Floating	Non-Pluggable	Local (Flag)	TTC-6-3-HF-F-M-12DC-UT-I	<a href="#">2906769</a>		



## Circuit Breakers: Industrial and Device

Thermal-magnetic miniature circuit breakers (MCBs)  
(For AC and DC industrial use only)

Power Reliability

SSC	# of poles	Trip curve	Current rating	Type description	Order #	
7.5kA	1	B	10A	TMC 71B 10A	<a href="#">1019916</a>	
			20A	TMC 71B 20A	<a href="#">1019921</a>	
			32A	TMC 71B 32A	<a href="#">1019924</a>	
		C	1A	TMC 71C 01A	<a href="#">1019972</a>	
			6A	TMC 71C 06A	<a href="#">1019977</a>	
			10A	TMC 71C 10A	<a href="#">1019980</a>	
			16A	TMC 71C 16A	<a href="#">1019984</a>	
			20A	TMC 71C 20A	<a href="#">1019985</a>	
			32A	TMC 71C 32A	<a href="#">1019988</a>	
			40A	TMC 71C 40A	<a href="#">1019989</a>	
			50A	TMC 71C 50A	<a href="#">1019990</a>	
			63A	TMC 71C 63A	<a href="#">1019992</a>	
	D	10A	TMC 71D 10A	<a href="#">1020045</a>		
		20A	TMC 71D 20A	<a href="#">1020052</a>		
		32A	TMC 71D 32A	<a href="#">1020055</a>		
	2	C	50A	TMC 71D 50A	<a href="#">1020057</a>	
			63A	TMC 71D 63A	<a href="#">1020059</a>	
			6A	TMC 72C 06A	<a href="#">1019999</a>	
		10A	TMC 72C 10A	<a href="#">1020002</a>		
		3	C	10A	TMC 73C 10A	<a href="#">1020023</a>
				20A	TMC 73C 20A	<a href="#">1020028</a>
	32A			TMC 73C 32A	<a href="#">1020031</a>	
	D	50A	TMC 73C 50A	<a href="#">1020033</a>		
		63A	TMC 73C 63A	<a href="#">1020036</a>		
20A		TMC 73D 20A	<a href="#">1020097</a>			
1, 2, 3	B, C, D	32A	TMC 73D 32A	<a href="#">1020100</a>		
		1-63A sizes not listed above	TMC 7XX XXX	Contact Sales		
10kA	1,2,3	B,C,D	1-63A	TMC 8XX XXX	Contact Sales	



Both TMC 7 Series (7.5kA) and TMC 8 Series (10kA) available in Current Ratings 1-63A, B-C-D Trip Curves and 1-2-3 Poles (table shows only a small selection of most common sizes)

Please contact customer service or your local Sales Rep for other specific sizes / types if required

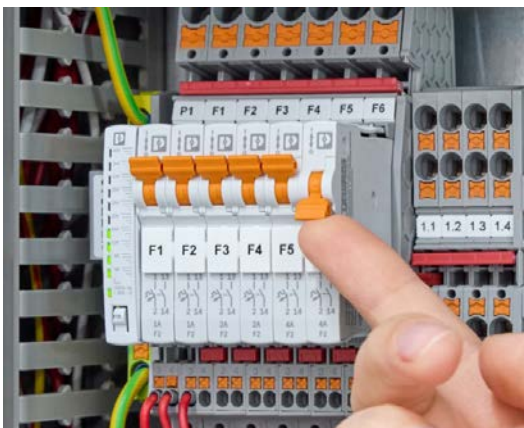
Full range of accessories available - BUSBARS, AUX CONTACT, ALARM CONTACT, SHUNT TRIPS, LOCK-OUTS etc.



Download: [Device Circuit Breakers Catalogue](#)

COMING SOON:

### The compact PTCB TM device circuit breakers



#### Advantages of the PTCB TM systemic device circuit breakers

- ✓ More space in the control cabinet: protection and signaling in an overall width of just 8 mm
- ✓ Simple application setup with the capability of bridging to the CLIPLINE complete terminal block range
- ✓ Transparency regarding utilization and status with practical current monitoring and remote signaling
- ✓ Easy handling from commissioning right through to maintenance due to clear functionality and switching state at all times



Learn more: [PTCB TM Device Circuit Breakers](#)

# Electronic Circuit Breakers (ECBs)

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	<a href="#">2905743</a>
8	0.5-10A	Full feature/function model	CBM E8 24DC/0.5-10A NO-R	<a href="#">2905744</a>

Electronic Circuit Breakers Module Compact (CBMC)				
Channels	Amp	Function	Description	Order #
4	1-4A	Remote reset version	CBMC E4 24DC/1-4A S-R	<a href="#">1065727</a>
4	1-10A	Remote reset version	CBMC E4 24DC/1-10A S-R	<a href="#">1065729</a>
4	1-4A	Status output version	CBMC E4 24DC/1-4A NO	<a href="#">2906031</a>
4	1-10A	Status output version	CBMC E4 24DC/1-10A NO	<a href="#">2906032</a>
4	1-4A	I/O link version	CBMC E4 24DC/1-4A+ IOL	<a href="#">2910410</a>
4	1-10A	I/O link version	CBMC E4 24DC/1-10A IOL	<a href="#">2910411</a>
4	1-8A	Galvanically isolated version	CBMC EG4 24DC/1-8A NO	<a href="#">1065730</a>



Single Channel Electronic Circuit Breakers (PTCB)							
Channels	Volts (DC)	Amp	Adjustable	Description	Order #	Status Output	Reset Input
1	24	1-4A	✓	PTCB E1 24DC/1-4A SI-R	<a href="#">1135753</a>	✓	✓
1	24	1-8A	✓	PTCB E1 24DC/1-8A SI-R	<a href="#">1135752</a>	✓	✓
1	24	1A		PTCB E1 24DC/1A SI-R	<a href="#">1135751</a>	✓	✓
1	24	2A		PTCB E1 24DC/2A SI-R	<a href="#">1135749</a>	✓	✓
1	24	4A		PTCB E1 24DC/4A SI-R	<a href="#">1135745</a>	✓	✓
1	24	6A		PTCB E1 24DC/6A SI-R	<a href="#">1135740</a>	✓	✓
1	24	8A		PTCB E1 24DC/8A SI-R	<a href="#">1135734</a>	✓	✓
1	24	1-3A	✓	PTCB E1 24DC/1-3A NO	<a href="#">2909909</a>	Relay NO	
1	24	1-4A	✓	PTCB E1 24DC/1-4A NO	<a href="#">2908261</a>	Relay NO	
1	24	1-8A	✓	PTCB E1 24DC/1-8A NO	<a href="#">2908262</a>	Relay NO	
1	24	1-8A	✓	PTCB E1 24DC/1-8A NO2 <b>NEW</b>	<a href="#">1388391</a>	Relay NC	
1	24	1A		PTCB E1 24DC/1A NO	<a href="#">2909902</a>	Relay NO	
1	24	2A		PTCB E1 24DC/2A NO	<a href="#">2909903</a>	Relay NO	
1	24	3A		PTCB E1 24DC/3A NO	<a href="#">2909904</a>	Relay NO	
1	24	4A		PTCB E1 24DC/4A NO	<a href="#">2909906</a>	Relay NO	
1	24	6A		PTCB E1 24DC/6A NO	<a href="#">2909908</a>	Relay NO	
1	24	8A		PTCB E1 24DC/8A NO	<a href="#">2909910</a>	Relay NO	

Single Channel Electronic Circuit Breakers "e-FUSE" (PTCB e-fuse) - 12 and 24 VDC							
Channels	Volts (DC)	Amp	Adjustable	Description	Order #	Status Output	Reset Input
1	12 - 24	0.1 - 0.63A	✓	PTCB E1 24DC/0.1-0.63A SI-R <b>NEW</b>	<a href="#">1441496</a>	✓	✓
1	12 - 24	0.1A		PTCB E1 24DC/0.1A SI-R <b>NEW</b>	<a href="#">1464483</a>	✓	✓
1	12 - 24	0.2A		PTCB E1 24DC/0.2A SI-R <b>NEW</b>	<a href="#">1361049</a>	✓	✓
1	12 - 24	0.5A		PTCB E1 24DC/0.5A SI-R <b>NEW</b>	<a href="#">1361051</a>	✓	✓
1	12 - 24	0.63A		PTCB E1 24DC/0.63A SI-R <b>NEW</b>	<a href="#">1464485</a>	✓	✓
1	12 - 24	0.1 - 0.63A	✓	PTCB E1 24DC/0.1-0.63A NO <b>NEW</b>	<a href="#">1441495</a>	Relay NO	
1	12 - 24	0.1A		PTCB E1 24DC/0.1A NO <b>NEW</b>	<a href="#">1464484</a>	Relay NO	
1	12 - 24	0.2A		PTCB E1 24DC/0.2A NO <b>NEW</b>	<a href="#">1361055</a>	Relay NO	
1	12 - 24	0.5A		PTCB E1 24DC/0.5A NO <b>NEW</b>	<a href="#">1361051</a>	Relay NO	
1	12 - 24	0.63A		PTCB E1 24DC/0.63A NO <b>NEW</b>	<a href="#">1464486</a>	Relay NO	

Single Channel Electronic Circuit Breakers (PTCB) - 48 VDC							
Channels	Volts (DC)	Amp	Adjustable	Description	Order #	Status Output	Reset Input
1	48	1 - 6A	✓	PTCB E1 48DC/1-6A NO <b>NEW</b>	<a href="#">1471917</a>	Relay NO	
1	48	2A		PTCB E1 48DC/2A NO <b>NEW</b>	<a href="#">1471918</a>	Relay NO	

PTCB and PTCB "eFuse"



## TRIO3 Power Supplies with inbuilt Electronic Circuit Breakers

(With included IO-Link communication)



Power supply

AC Input to DC Output



NEW



Phase	Output Voltage	Output Current	Channels	Channel Current	Description	Connection Technology	Order #
1	24 VDC	10A	4	1-10A	TRIO3-PS/1AC/24DC/10/4C/IOL	NEW Push-In	<a href="#">1252696</a>
1	24 VDC	20A	8	1-10A	TRIO3-PS/1AC/24DC/20/8C/IOL	NEW Push-In	<a href="#">1252697</a>
3	24 VDC	20A	8	1-10A	TRIO3-PS/1AC/24DC/20/8C/IOL	NEW Push-In	<a href="#">1362791</a>
3	24 VDC	40A	8	1-10A	TRIO3-PS/1AC/24DC/40/8C/IOL	NEW Push-In	<a href="#">1362792</a>

## TRIO-PM

(Panel Mount Power Supply)



Power supply

AC Input to DC Output



Phase	Output Voltage	Output Current	Description	Connection Technology	Order #
1	24 VDC	62.5A	TRIO-PM/1AC/24DC/1500W/PT	NEW Push-In	<a href="#">1635197</a>
		104A	TRIO-PM/1AC/24DC/2500W/PT	NEW Push-In	<a href="#">1635195</a>
		104A	TRIO-PM/1AC/24DC/2500W	NEW Screw	<a href="#">1635194</a>
	48 VDC	31.25A	TRIO-PM/1AC/48DC/1500W/PT	NEW Push-In	<a href="#">1739009</a>
		52A	TRIO-PM/1AC/48DC/2500W/PT	NEW Push-In	<a href="#">1738960</a>



# CAPAROC: Modular Electronic Circuit Breaker System

(For 12V and 24V device use)

Power Reliability



EtherNet/IP™



IO-Link



EtherCAT®



- 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

CAPAROC Power Module (Mandatory Item)					
Comms	Voltage	Width	Description	Order #	
Basic	12 - 24 VDC	2 slots	CAPAROC PM S-R	<a href="#">1115661</a>	
IO-LINK			CAPAROC PM IOL	<a href="#">1110986</a>	
Profinet		4 slots	CAPAROC PM PN	<a href="#">1110986</a>	
Ethernet / IP			CAPAROC PM EIP	<a href="#">1393553</a>	NEW
Modbus/TCP			CAPAROC PM MB	<a href="#">1687559</a>	NEW
EtherCat			CAPAROC PM EC	<a href="#">1687560</a>	NEW



Current Rails and Extensions

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	<a href="#">1115672</a>
CR20		20 Slots	124mm	Standard	CAPAROC CR 20	<a href="#">1110989</a>
CR4-EXT		4 Slots	24.8mm	Extension	CAPAROC CR EXT4	<a href="#">1110991</a>
CR8-EXT		8 Slots	49.6mm	Extension	CAPAROC CR EXT8	<a href="#">1110990</a>
CR20-EXT		20 Slots	124mm	Extension	CAPAROC CR EXT20	<a href="#">1115674</a>
CR-CON		N/A	N/A	Connector	CAPAROC CR CON	<a href="#">1270955</a>



4 Channel

2 Channel

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	<a href="#">1115658</a>	
4	1-4A		2 Slots	CAPAROC E4 12-24DC/1-4A	<a href="#">1115657</a>	
2	2-10A		2 Slots	CAPAROC E2 12-24DC/2-10A	<a href="#">1110984</a>	
2	1-4A		2 Slots	CAPAROC E2 12-24DC/1-4A	<a href="#">1115655</a>	
1	1-10A		1 Slot	CAPAROC E1 12-24DC/1-10A	<a href="#">1115649</a>	
1	1-4A		1 Slot	CAPAROC E1 12-24DC/1-4A	<a href="#">1115415</a>	
1	10A		1 Slot	CAPAROC E1 12-24DC/10A	<a href="#">1157284</a>	
1	8A		1 Slot	CAPAROC E1 12-24DC/8A	<a href="#">1157279</a>	
1	6A		1 Slot	CAPAROC E1 12-24DC/6A	<a href="#">1157286</a>	
1	4A		1 Slot	CAPAROC E1 12-24DC/4A	<a href="#">1157285</a>	
1	2A		1 Slot	CAPAROC E1 12-24DC/2A	<a href="#">1157290</a>	
1	1A		1 Slot	CAPAROC E1 12-24DC/1A	<a href="#">1157288</a>	
1	12-20A		1 Slot	CAPAROC E1 12-24DC/12-20A	<a href="#">1115663</a>	NEW
1	12A		1 Slot	CAPAROC E1 12-24DC/12A	<a href="#">1524929</a>	NEW
1	16A		1 Slot	CAPAROC E1 12-24DC/16A	<a href="#">1115666</a>	NEW



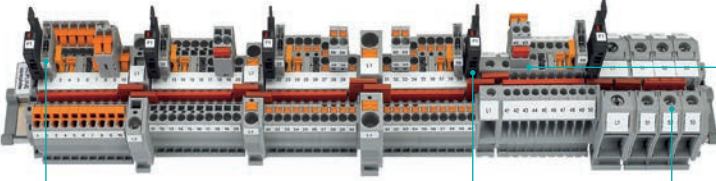
1 Channel

CAPAROC 0 VDC Distribution Module				
Module	Voltage	Width	Description	Order #
Distribution	12 - 24 VDC	1 Slot	CAPAROC PD 0V	<a href="#">1110987</a>

# 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



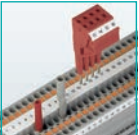
**Disconnect zone:**

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



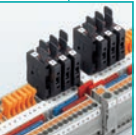
**Plug-in zone:**

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



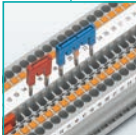
**Test plugs:**

- 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

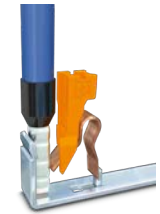


**Plug-in bridging:**

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

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

Push-in Technology (PT)										
mm <sup>2</sup>	I (nom)	Connections	Description	Order #	End Cover	Bridge (2-Position)	Marking			
							Thermomark Card / Prime		Bluemark ID/ E.Card	
							Side	Top	Side	Top
1.5	17.5 A	2	PT 1,5/S	<a href="#">3208100</a>	3208142	3213014 FBS 2-3,5	0829486	0829484	0829486	0829484
	-		PT 1,5/S BU	<a href="#">3208126</a>			UCT-TMF 3,5	UCT-TM 3,5	UCT-TMF 3,5	UCT-TM 3,5
	-		PT 1,5/S-PE	<a href="#">3208139</a>						
2.5	24 A	3	PT 2,5	<a href="#">3209510</a>	3030417	3030161 FBS 2-5	0828744 UCT-TMF 5	0828734 UCT-TM 5	0818153 UC-TMF 5	0818108 UC-TM 5
	-		PT 2,5 BU	<a href="#">3209523</a>						
	-		PT 2,5-PE	<a href="#">3209536</a>						
	24 A	4	PT 2,5-TWIN	<a href="#">3209549</a>						
	-		PT 2,5-TWIN BU	<a href="#">3209552</a>						
	-		PT 2,5-TWIN-PE	<a href="#">3209565</a>						
24 A	4	PT 2,5-QUATTRO	<a href="#">3209578</a>							
-		PT 2,5-QUATTRO BU	<a href="#">3209581</a>							
-		PT 2,5-QUATTRO-PE	<a href="#">3209594</a>							
4	32 A	2	PT 4	<a href="#">3211757</a>	3030420	3030336 FBS 2-6	0828746 UCT-TMF 6	0828736 UCT-TM 6	0818140 UC-TMF 6	0818085 UC-TM 6
	-		PT 4 BU	<a href="#">3211760</a>						
	-		PT 4-PE	<a href="#">3211766</a>						
	6.3 A	3	PT 4-HESI (5X20 FUSE)	<a href="#">3211861</a>						
	-		PT 4-HESI (5X20 FUSE)	<a href="#">3211903</a>						
	-		PT 4-TWIN	<a href="#">3211771</a>						
	32 A	4	PT 4-TWIN BU	<a href="#">3211775</a>						
	-		PT 4-TWIN-PE	<a href="#">3211780</a>						
	-		PT 4-QUATTRO	<a href="#">3211797</a>						
32 A	4	PT 4-QUATTRO BU	<a href="#">3211802</a>							
-		PT 4-QUATTRO-PE	<a href="#">3211809</a>							
-		PT 4	<a href="#">3211813</a>							
6	41 A	2	PT 6 BU	<a href="#">3211819</a>	3212044	3030284 FBS 2-8	0828748 UCT-TMF 8	0828740 UCT-TM 8	0818137 UC-TMF 8	0818072 UC-TM 8
	-		PT 6-PE	<a href="#">3211822</a>						
	-		PT 10	<a href="#">3212120</a>						
10	57 A	2	PT 10 BU	<a href="#">3212123</a>	3212057	3005947 FBS 2-10	0829204 UCT-TMF 10	0829142 UCT-TM 10	0818124 UC-TMF 10	0818069 UC-TM 10
	-		PT 10-PE	<a href="#">3212131</a>						
	-		PT 16 N	<a href="#">3212138</a>						
16	76 A	2	PT 16 N BU	<a href="#">3212142</a>	3212060	3005950 FBS 2-12	0829214 UCT-TMF 12	0829144 UCT-TM 12	0819233 UC-TMF 12	0819194 UC-TM 12
	-		PT 16 N-PE	<a href="#">3212147</a>						
	-									



- Simple push-in spring ideal for solid and ferruled wires
- Tool-free termination
- 50 percent lower insertion force
- Orange push button 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


Multi-level Terminal Blocks										
2.5	22 A	4	PTTB 2,5	<a href="#">3210567</a>	3211634	3030161 FBS 2-5	0828744 UCT-TMF 5	0818153 UC-TMF 5		
	-		PTTB 2,5-PE	<a href="#">3210596</a>						
	20 A	6	PT 2,5-3L	<a href="#">3210499</a>	3211647					
	-		PT 2,5-3PE	<a href="#">3210525</a>						
	18 A	8	PT 2,5-4L	<a href="#">1334599</a>	1336340					
	-		PT 2,5-4PE	<a href="#">1336413</a>						
28 A	4	PTTB 4	<a href="#">3211786</a>	3030462	3030336 FBS 2-6	0828746 UCT-TMF 6	0818140 UC-TMF 6			
-		PTTB 4-PE	<a href="#">3211854</a>							

Push-in Technology Vertical (PTV)										
2.5	24 A	2	PTV 2,5	<a href="#">1078960</a>	1088746	3030161 FBS 2-5	0828734 UCT-TM 5	0818108 UC-TM 5		
	-		PTV 2,5 BU	<a href="#">1078962</a>						
	-		PTV 2,5-PE	<a href="#">1078963</a>						
4	32 A	2	PTV 4	<a href="#">1088728</a>	1088746	3030336 FBS 2-6	0828736 UCT-TM 6	0818085 UC-TM 6		
	-		PTV 4 BU	<a href="#">1088729</a>						
	-		PTV 4-PE	<a href="#">1088730</a>						
6	41 A	2	PTV 6	<a href="#">1116734</a>	1180894	3030286 FBS 2-8	0828740 UCT-TM 8	0818072 UC-TM 8		
	-		PTV 6 BU	<a href="#">1116735</a>						
	-		PTV 6-PE	<a href="#">1116736</a>						



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

Bolt (Ring-lug) Technology (RT)										
2.5	24 A	2	RT 3	<a href="#">3049013</a>	<a href="#">3049097</a>	<a href="#">3030336</a> FBS 2-6	<a href="#">0828740</a> UCT-TM 8	<a href="#">0818072</a> UC-TM 8		 <ul style="list-style-type: none"> <li>Enable the easy connection of ring and fork-type cable lugs.</li> </ul>
6	41 A		RT 5	<a href="#">3049026</a>		<a href="#">3030284</a> FBS 2-8	<a href="#">0829144</a> UCT-TM 12	<a href="#">0819194</a> UC-TM 12		
35	125 A		RT 8	<a href="#">3049042</a>	<a href="#">3049194</a>	<a href="#">3005947</a> FBS 2-10	<a href="#">0829146</a> UCT-TM 16	<a href="#">0819217</a> UC-TM 16		

Screw Technology (UT)											
mm <sup>2</sup>	I (nom)	Connections	Description	Order #	End Cover	Bridge (2-Position)	Marking				 <ul style="list-style-type: none"> <li>Universal multi-wire connection with highest pullout force</li> <li>Save money with uniform bridging, marking, and accessories as part of the Clipline Complete system</li> <li>Maintenance-free conductor connection with the Reakdyn® principle – there is no need to tighten the terminal block screws</li> </ul>
							Thermomark Card / Prime		Bluemark ID/ E.Card		
							Side	Top	Side	Top	
1.5	17.5 A	2	UT 1,5	<a href="#">1452265</a>	<a href="#">3047028</a>	<a href="#">3030116</a> FBS 2-4	<a href="#">0828742</a> UCT-TMF 4	<a href="#">0828732</a> UCT-TM 4	<a href="#">0818166</a> UC-TMF 4	<a href="#">0818111</a> UC-TM 4	
	-		UT 1,5 BU	<a href="#">1452264</a>							
	-		UT 1,5-PE	<a href="#">1452318</a>							
2.5	24 A	3	UT 2,5	<a href="#">3044076</a>	<a href="#">3047028</a>	<a href="#">3030161</a> FBS 2-5	<a href="#">0828734</a> UCT-TM 5	<a href="#">0818108</a> UC-TM 5	<a href="#">0818108</a> UC-TM 5		
	-		UT 2,5 BU	<a href="#">3044089</a>							
	-		UT 2,5-PE	<a href="#">3044092</a>							
	24 A	4	UT 2,5-TWIN	<a href="#">3044513</a>							
	-		UT 2,5-TWIN BU	<a href="#">3044526</a>							
	-		UT 2,5-TWIN-PE	<a href="#">3044539</a>							
24 A	4	UT 2,5-QUATTRO	<a href="#">3044542</a>	<a href="#">3047170</a>							
-		UT 2,5-QUATTRO BU	<a href="#">3044555</a>								
-		UT 2,5-QUATTRO-PE	<a href="#">3044568</a>								
4	32 A	2	UT 4	<a href="#">3044102</a>	<a href="#">3047028</a>	<a href="#">3030336</a> FBS 2-6	<a href="#">0828736</a> UCT-TM 6	<a href="#">0818085</a> UC-TM 6	<a href="#">0818085</a> UC-TM 6		
	-		UT 4 BU	<a href="#">3044115</a>							
	-		UT 4-PE	<a href="#">3044128</a>							
	6.3 A	3	UT 4-HESI (5X20 FUSE)	<a href="#">3046032</a>	-						
	32 A		UT 4-TWIN	<a href="#">3044364</a>	<a href="#">3047141</a>						
	-		UT 4-TWIN BU	<a href="#">3044500</a>							
-	UT 4-TWIN-PE	<a href="#">3044380</a>									
32 A	4	UT 4-QUATTRO	<a href="#">3044571</a>	<a href="#">3047170</a>							
-		UT 4-QUATTRO BU	<a href="#">3044584</a>								
32 A	4	UT 4-QUATTRO-PE	<a href="#">3044597</a>	<a href="#">3047206</a>							
-		UT 4-QUATTRO-PE	<a href="#">3044597</a>								
6	41 A	2	UT 6	<a href="#">3044131</a>	<a href="#">3047028</a>	<a href="#">3030284</a> FBS 2-8	<a href="#">0828740</a> UCT-TM 8	<a href="#">0818072</a> UC-TM 8	<a href="#">0818072</a> UC-TM 8		
-	UT 6 BU		<a href="#">3044144</a>								
-	UT 6-PE		<a href="#">3044157</a>								
10	57 A	2	UT 10	<a href="#">3044160</a>	<a href="#">3047028</a>	<a href="#">3005947</a> FBS 2-10	<a href="#">0829142</a> UCT-TM 10	<a href="#">0818069</a> UC-TM 10	<a href="#">0818069</a> UC-TM 10		
-	UT 10 BU		<a href="#">3044188</a>								
-	UT 10-PE		<a href="#">3044173</a>								
16	76 A	2	UT 16	<a href="#">3044199</a>	<a href="#">3047206</a>	<a href="#">3005950</a> FBS 2-12	<a href="#">0829144</a> UCT-TM 12	<a href="#">0819194</a> UC-TM 12	<a href="#">0819194</a> UC-TM 12		
-	UT 16 BU		<a href="#">3044209</a>								
-	UT 16-PE		<a href="#">3044212</a>								

Multi-level Terminal Blocks									
2.5	24 A	4	UTTB 2,5	<a href="#">3044636</a>	<a href="#">3047293</a>	<a href="#">3030161</a> FBS 2-5	<a href="#">0828734</a> UCT-TM 5	<a href="#">0818108</a> UC-TM 5	<a href="#">0818108</a> UC-TM 5
	-		UTTB 2,5-PE	<a href="#">3044665</a>					
	19 A		6	UT 2,5-3L					
-	UT 2,5-3PE	<a href="#">3214275</a>							
4	30 A	4	UTTB 4	<a href="#">3044814</a>	<a href="#">3047293</a>	<a href="#">3030336</a> FBS 2-6	<a href="#">0828736</a> UCT-TM 6	<a href="#">0818085</a> UC-TM 6	<a href="#">0818085</a> UC-TM 6
-	-	-	UTTB 4-PE	<a href="#">3044759</a>	-	-	-	-	-

Push-X Technology (XT)											
2.5	24 A	2	XT 2,5	<a href="#">1343106</a>	<a href="#">3030417</a>	<a href="#">3030161</a> FBS 2-5	<a href="#">0828744</a> UCT-TMF 5	<a href="#">0828734</a> UCT-TM 5	<a href="#">0818153</a> UC-TMF 5	<a href="#">0818108</a> UC-TM 5	
	-		XT 2,5 BU	<a href="#">1343114</a>							
	-		XT 2,5-PE	<a href="#">1343116</a>							
	24 A		3	XT 2,5-TWIN	<a href="#">1343117</a>						<a href="#">3030488</a>
	-			XT 2,5-TWIN BU	<a href="#">1343121</a>						
	-			XT 2,5-TWIN-PE	<a href="#">1343126</a>						
	24 A		4	XT 2,5-QUATTRO	<a href="#">1343129</a>						<a href="#">3030514</a>
	-			XT 2,5-QUATTRO BU	<a href="#">1343130</a>						
-	XT 2,5-QUATTRO-PE	<a href="#">1343137</a>									

Multi-level Terminal Blocks										
2.5	22 A	4	XTTB 2,5	<a href="#">1453789</a>	<a href="#">3211634</a>	<a href="#">3030161</a> FBS 2-5	<a href="#">0828744</a> UCT-TMF 5	<a href="#">0828734</a> UCT-TM 5	<a href="#">0818153</a> UC-TMF 5	<a href="#">0818108</a> UC-TM 5
-	-		XTTB 2,5-PE	<a href="#">1453897</a>						

Push-X Technology Vertical (XTV)									
6	41 A	2	XTV 6	<a href="#">1329493</a>	<a href="#">1329515</a>	<a href="#">3030284</a> FBS 2-8	<a href="#">0828740</a> UCT-TM 8	<a href="#">0818072</a> UC-TM 8	<a href="#">0818072</a> UC-TM 8
	-		XTV 6 BU	<a href="#">1329494</a>					
	-		XTV 6-PE	<a href="#">1329495</a>					
	41 A	3	XTV 6-TWIN	<a href="#">1329499</a>	<a href="#">1329516</a>				
	-		XTV 6-TWIN BU	<a href="#">1329506</a>					
	-		XTV 6-TWIN-PE	<a href="#">1329507</a>					
41 A	4	XTV 6-QUATTRO	<a href="#">1329511</a>	<a href="#">1329517</a>					
-		XTV 6-QUATTRO BU	<a href="#">1329512</a>						
-		XTV 6-QUATTRO-PE	<a href="#">1329513</a>						
10	57 A	2	XTV 10	<a href="#">1329547</a>	<a href="#">1329608</a>	<a href="#">3005947</a> FBS 2-10	<a href="#">0829142</a> UCT-TM 10	<a href="#">0818069</a> UC-TM 10	<a href="#">0818069</a> UC-TM 10
	-		XTV 10 BU	<a href="#">1329549</a>					
	-		XTV 10-PE	<a href="#">1329550</a>					
	57 A	3	XTV 10-TWIN	<a href="#">1329603</a>	<a href="#">1329609</a>				
	-		XTV 10-TWIN BU	<a href="#">1329605</a>					
-	XTV 6-TWIN-PE	<a href="#">1329606</a>							
16	76 A	2	XTV 16	<a href="#">1329672</a>	<a href="#">1329675</a>	<a href="#">3005950</a> FBS 2-12	<a href="#">0829144</a> UCT-TM 12	<a href="#">0819194</a> UC-TM 12	<a href="#">0819194</a> UC-TM 12
-	XTV 16 BU		<a href="#">1329673</a>						
-	XTV 16-PE	<a href="#">1329674</a>							

NEW Push-X Technology (XT) - Portfolio completion										
1.5	17.5 A	2	XT 1,5*	<a href="#">NEW 1641108</a>	<a href="#">1343141</a>	<a href="#">3030116</a> FBS 2-4	<a href="#">0828742</a> UCT-TMF 4	<a href="#">0828732</a> UCT-TM 4	<a href="#">0818166</a> UC-TMF 4	<a href="#">0818111</a> UC-TM 4
		3	XT 1,5-TWIN*	<a href="#">NEW 1641116</a>	<a href="#">1641135</a>					
		4	XT 1,5-QUATTRO*	<a href="#">NEW 1641123</a>	<a href="#">1641136</a>					
4	32 A	2	XT 4*	<a href="#">NEW 1343174</a>	<a href="#">3030420</a>	<a href="#">3030336</a> FBS 2-6	<a href="#">0828746</a> UCT-TMF 6	<a href="#">0828736</a> UCT-TM 6	<a href="#">0818140</a> UC-TMF 6	<a href="#">0818085</a> UC-TM 6
		3	XT 4-TWIN*	<a href="#">NEW 1343199</a>	-					
		4	XT 4-QUATTRO*	<a href="#">NEW 1343211</a>	-					

\* For color variants available please check our website.

Cabinet Efficiency

# Terminal Blocks for Energy

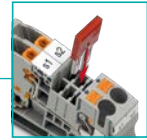
## ME series

- Test disconnect terminal blocks in CLIPLINE style
- Switch, short-circuit, measure and disconnect safely and conveniently



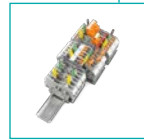
**Functionality:**

- Advanced performance with up to six universal function shafts for potential distribution and testing.



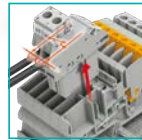
**Compatibility:**

- A single set of standard accessories for all connection types, complementing the CLIPLINE complete range.



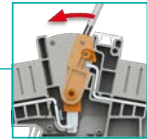
**Design:**

- Modular style for current transformer and measuring transducer switching with plug-in transformer terminal blocks.



**Reliability:**

- Protection of connected current transformers and measuring transducers with plug versions with integrated leading short-circuit contact.



**Identification:**

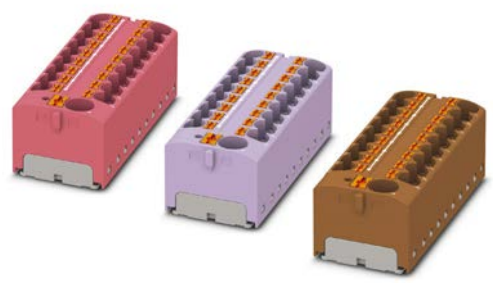
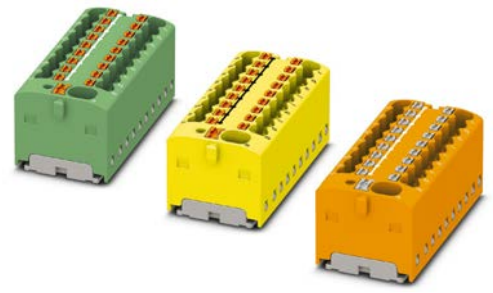
- Ensures clear visibility of switching states for accurate and safe operation.

■ What connection style best fits your application?				■ Will you be bridging terminals?								
■ What wire size are you using? What is your current (Amps) and voltage (Volts) requirement?				■ Resulting Phoenix Contact part number								
■ How many connection points?				■ What accessories are needed?								
■ How many end covers are needed?												
<b>Push-in Technology (PT)</b>												
mm2	I (nom)	V (nom)	Connections	Description	Order #	End Cover	Bridge (2-Position)	Marking				Image
								Thermomark Card / Prime		Bluemark ID/ E.Card		
								Side	Top	Side	Top	
4	24 A	500 V	2	PTME 4	3212139	3212167	3030336 FBS 2-6	0828746 UCT-TMF 6	0828736 UCT-TM 6	0818140 UC-TMF 6	0818085 UC-TM 6	
				PTME 4 BU	3212148							
				PTME 4 RD	3212143							
				PTME 4 WH	3212140							
				PTME 4 BG	1754667							
				PTMED 4	3212141							
6	30 A	1000 V	2	PTME 6	3212170	3034426	3030284 FBS 2-8	0828748 UCT-TMF 8	0828740 UCT-TM 8	0818137 UC-TMF 8	0818072 UC-TM 8	
				PTME 6 HV	3035696							
				PTME 6 HV BU	3035695							
				PTMED 6	3212183							
				PTMED 6-PE	3212196							
				PTME 6-CT/1P	3212300							
6	41 A	500 V	2	PTMED 6-CT/1P	3212301	3212303	3030284 FBS 2-8	0828748 UCT-TMF 8	0828740 UCT-TM 8	0818137 UC-TMF 8	0818072 UC-TM 8	
				PTMED 6-CT/1P-PE	3212302							
				PTVME 6/S	1164788							
				PTVME 6/S BU	1350428							
				PTVME 6/S RD	1350427							
				PTVME 6/S GN	1350426							
6	30 A	1000 V	2	PTVME 6/S YE	1350425	1164789	3030284 FBS 2-8	0828748 UCT-TMF 8	0828740 UCT-TM 8	0818137 UC-TMF 8	0818072 UC-TM 8	
				PTVME 6/S-P	1166809							
				PTVME 6/S-P BU	1350424							
				PTVME 6/S-P RD	1350423							
				PTVME 6/S-P GN	1350422							
				PTVME 6/S-P YE	1350421							
				XTVMEA 6	1446173							
				XTVMEA 6 BN	1754666							
				XTVMED 6	1446172							
				XTVMED 6-PE	1446171							
<b>Push-X Technology Vertical (XTV)</b>												
6	30 A	800 V	2	XTVMEA 6	1446173	1447809	3030284 FBS 2-8	0828748 UCT-TMF 8	0828740 UCT-TM 8	0818137 UC-TMF 8	0818072 UC-TM 8	
				XTVMEA 6 BN	1754666							
				XTVMED 6	1446172							
				XTVMED 6-PE	1446171							
<b>Screw Technology (UT)</b>												
4	28 A	500 V	2	UTME 4	3047452	3047491	3030336 FBS 2-6	0828746 UCT-TMF 6	0828736 UCT-TM 6	0818140 UC-TMF 6	0818085 UC-TM 6	
				UTME 4 BG	1348765							
				UTMED 4	3047465							
				UTMED 4-PE	3047478							
				UTME 4-P/P	3047453							
				UTME 4-P/P BU	3047454							
6	30 A	500 V	2	UTME 4-CT/1P	3057432	3057445	3030284 FBS 2-8	0828740 UCT-TM 8	0818072 UC-TM 8	0818072 UC-TM 8	0818072 UC-TM 8	
				UTME 6	3047400							
				UTME 6 BN	1098640							
				UTMED 6	3047413							
				UTMED 6-PE	3047442							
				UTME 6	3047400							
<b>Spring-cage Technology (ST)</b>												
6	30 A	1000 V	2	STME 6	3035700	3034426	3030284 FBS 2-8	0828748 UCT-TMF 8	0828740 UCT-TM 8	0818137 UC-TMF 8	0818072 UC-TM 8	
				STMED 6	3035713							
				STMED 6-PE	3035726							
<b>URTK/S (Screw technology - not part of the ME series)</b>												
6	41 A	400 V	2	URTK/S	311087	0310020	3030284 FBS 2-8	0828740 UCT-TM 8	0818072 UC-TM 8	0818072 UC-TM 8	0818072 UC-TM 8	
				URTK/S RD	311812							
				URTK/S GN	3070118							

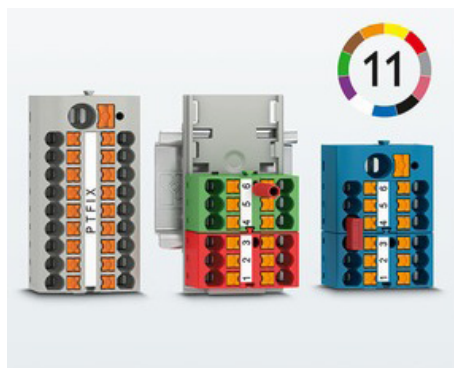
# Distribution Blocks

■ 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?					
<b>Push-in (PTFIX 4/1.5)</b>					
mm <sup>2</sup>	I (max)	Connections	Order #		
4	41	19	Grey	PTFIX 4/18X1,5-NS35 GY	<a href="#">1047454</a>
			Blue	PTFIX 4/18X1,5-NS35 BU	<a href="#">1047455</a>
			Red	PTFIX 4/18X1,5-NS35 RD	<a href="#">1047456</a>
			Brown	PTFIX 4/18X1,5-NS35 BN	<a href="#">1047457</a>
			Green	PTFIX 4/18X1,5-NS35 GN	<a href="#">1047458</a>
			Yellow	PTFIX 4/18X1,5-NS35 YE	<a href="#">1047459</a>
			Black	PTFIX 4/18X1,5-NS35 BK	<a href="#">1047460</a>
			White	PTFIX 4/18X1,5-NS35 WH	<a href="#">1047461</a>
			Violet	PTFIX 4/18X1,5-NS35 VT	<a href="#">1047462</a>
			Orange	PTFIX 4/18X1,5-NS35 OG	<a href="#">1047463</a>
			Pink	PTFIX 4/18X1,5-NS35 PK	<a href="#">1047464</a>
Black/Yellow	PTFIX 4/18X1,5-NS35-FE	<a href="#">1047465</a>			
<b>Push-in (PTFIX 6/2.5)</b>					
mm <sup>2</sup>	I (max)	Connections	Order #		
6	57	19	Grey	PTFIX 6/18X2,5-NS35 GY	<a href="#">3273110</a>
			Blue	PTFIX 6/18X2,5-NS35 BU	<a href="#">3273112</a>
			Red	PTFIX 6/18X2,5-NS35 RD	<a href="#">3273114</a>
			Brown	PTFIX 6/18X2,5-NS35 BN	<a href="#">3273120</a>
			Green	PTFIX 6/18X2,5-NS35 GN	<a href="#">3273118</a>
			Yellow	PTFIX 6/18X2,5-NS35 YE	<a href="#">3273116</a>
			Black	PTFIX 6/18X2,5-NS35 BK	<a href="#">3273124</a>
			White	PTFIX 6/18X2,5-NS35 WH	<a href="#">3273122</a>
			Violet	PTFIX 6/18X2,5-NS35 VT	<a href="#">3273126</a>
			Orange	PTFIX 6/18X2,5-NS35 OG	<a href="#">3273128</a>
			Pink	PTFIX 6/18X2,5-NS35 PK	<a href="#">3273127</a>
Black/Yellow	PTFIX 6/18X2,5-NS35-FE	<a href="#">3273130</a>			
<b>Push-in (PTFIX 10/4)</b>					
mm <sup>2</sup>	I (max)	Connections	Order #		
10	63	19	Grey	PTFIX 10/18X4-NS35 GY	<a href="#">3273636</a>
			Blue	PTFIX 10/18X4-NS35 BU	<a href="#">3273638</a>
			Red	PTFIX 10/18X4-NS35 RD	<a href="#">3273640</a>
			Brown	PTFIX 10/18X4-NS35 BN	<a href="#">3273646</a>
			Green	PTFIX 10/18X4-NS35 GN	<a href="#">3273644</a>
			Yellow	PTFIX 10/18X4-NS35 YE	<a href="#">3273642</a>
			Black	PTFIX 10/18X4-NS35 BK	<a href="#">3273650</a>
			White	PTFIX 10/18X4-NS35 WH	<a href="#">3273648</a>
			Violet	PTFIX 10/18X4-NS35 VT	<a href="#">3273652</a>
			Orange	PTFIX 10/18X4-NS35 OG	<a href="#">3273654</a>
			Pink	PTFIX 10/18X4-NS35 PK	<a href="#">3273653</a>
Black/Yellow	PTFIX 10/18X4-NS35-FE	<a href="#">3273656</a>			

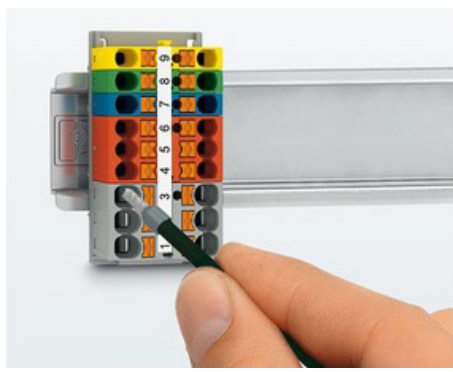
Cabinet Efficiency



- ✔ 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



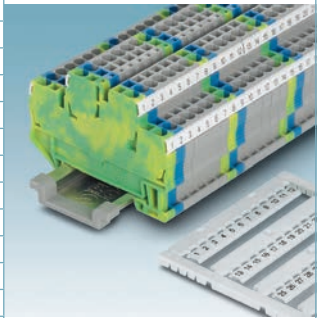
Time saving push-in technology



Easy to bridge

# Marking

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



Wire/Cable						
Order #	Description	Thermomark Card 2.0	Thermomark Prime 2.0	Bluemark E.Card	Bluemark ID / ID Colour	Topmark Neo
<a href="#">0801430</a>	UCT-WMT (10X4)	✓	✓	✓	✓	✓
<a href="#">0801438</a>	UCT-WMT (12X4)	✓	✓	✓	✓	✓
<a href="#">0801446</a>	UCT-WMT (15X4)	✓	✓	✓	✓	✓
<a href="#">0801462</a>	UCT-WMT (18X4)	✓	✓	✓	✓	✓
<a href="#">0801453</a>	UCT-WMT (23X4)	✓	✓	✓	✓	✓
<a href="#">0801422</a>	UCT-WMT (30X4)	✓	✓	✓	✓	✓
<a href="#">0819372</a>	UC-WMT (10X4)			✓	✓	
<a href="#">0823517</a>	UC-WMT (12X4)			✓	✓	
<a href="#">0819398</a>	UC-WMT (15X4)			✓	✓	
<a href="#">0820293</a>	UC-WMT (18X4)			✓	✓	
<a href="#">0819411</a>	UC-WMT (23X4)			✓	✓	
<a href="#">0801422</a>	UC-WMT (30X4)			✓	✓	
<a href="#">0828765</a>	US-WMT (10X4)	✓	✓		✓	
<a href="#">0828766</a>	US-WMT (12X4)	✓	✓		✓	
<a href="#">0828767</a>	US-WMT (15X4)	✓	✓		✓	
<a href="#">0828768</a>	US-WMT (18X4)	✓	✓		✓	
<a href="#">0828769</a>	US-WMT (23X4)	✓	✓		✓	
<a href="#">0828770</a>	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 <a href="#">1013795</a>	PATG 0/12 <a href="#">0827076</a>	PATG 0/15 <a href="#">1013740</a>	PATG 0/18 <a href="#">0820507</a>	PATG 0/23 <a href="#">0828046</a>	
1.5-2.5 mm	PATG 1/10 <a href="#">1013805</a>	PATG 1/12 <a href="#">0827077</a>	PATG 1/15 <a href="#">1013025</a>	PATG 1/18 <a href="#">0820510</a>	PATG 1/23 <a href="#">1013847</a>	PATG 1/30 <a href="#">0822440</a>
2-4 mm	PATG 2/10 <a href="#">1013818</a>	PATG 2/12 <a href="#">0827078</a>	PATG 2/15 <a href="#">1013038</a>	PATG 2/18 <a href="#">0820523</a>	PATG 2/23 <a href="#">1013850</a>	PATG 2/30 <a href="#">0822453</a>
4-7 mm	PATG 3/10 <a href="#">1013821</a>	PATG 3/12 <a href="#">0827079</a>	PATG 3/15 <a href="#">1013041</a>	PATG 3/18 <a href="#">0820536</a>	PATG 3/23 <a href="#">1013863</a>	PATG 3/30 <a href="#">0822466</a>
6-10 mm		PATG 4/12 <a href="#">0827080</a>	PATG 4/15 <a href="#">1013054</a>	PATG 4/18 <a href="#">0820549</a>	PATG 4/23 <a href="#">0808011</a>	PATG 4/30 <a href="#">0822479</a>
10-14 mm			PATG 5/15 <a href="#">1013067</a>	PATG 5/18 <a href="#">0828059</a>	PATG 5/23 <a href="#">0808024</a>	PATG 5/30 <a href="#">0822482</a>
14-22 mm			PATG 6/15 <a href="#">1013070</a>	PATG 6/18 <a href="#">0828062</a>	PATG 6/23 <a href="#">0808037</a>	
22-30 mm			PATG 7/15 <a href="#">1013083</a>		PATG 7/23 <a href="#">0808040</a>	
30-35 mm			PATG 8/15 <a href="#">1013096</a>		PATG 8/23 <a href="#">0808053</a>	
35-45 mm			PATG 9/15 <a href="#">1013106</a>			



# 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				
<b>Printing Solutions</b>				
Material	Volume	Size	Description	Order #
Card and Sheet	Manual Feed	Desktop	THERMOMARK CARD 2.0	<a href="#">1085267</a>
Card and Sheet	Manual Feed	Desktop and Portable	THERMOMARK Prime 2.0	<a href="#">1472413</a>
Roll	< 50,000 Labels/yr.	Desktop	THERMOMARK Roll 2.0	<a href="#">1085260</a>
Roll	> 50,000 Labels/yr.	Large/Desktop	THERMOMARK E.300D	<a href="#">1287038</a>
Cartridge	Low	Handheld	THERMOMARK GO.K	<a href="#">1184146</a>
Cartridge	Low	Handheld	THERMOMARK GO.K SET	<a href="#">1184148</a>
Cartridge	Low	Portable	THERMOMARK GO	<a href="#">1090747</a>
Cartridge	Low	Portable	THERMOMARK GO SET	<a href="#">1221548</a>
Card	High	Large/Desktop	BLUEMARK E.CARD	<a href="#">1506732</a>



Cabinet Efficiency

Printer	Print Materials	Width (mm)	Length (mm)	Description	Order #
Thermomark Roll 2.0 Thermomark E Series	TML..., WML..., WML HF..., WML-FLAG..., EML..., EML-ESD..., EML-RM..., EML-HA..., EMLS..., EMLC..., EMLP... and PMM...	110	300	THERMOMARK-RIBBON 110	<a href="#">5145384</a>
	WMS... and WMS-2 HF...	64	300	THERMOMARK-RIBBON 64-WMSU	<a href="#">0801360</a>
	WMS... and WMS-2 HF...	110	300	THERMOMARK-RIBBON 110-WMSU	<a href="#">0801358</a>
	WMTB HF..., WMS-2 HF..., TMT..., EMT..., EMLF..., PML...	110	300	THERMOMARK-RIBBON 110-WMTB HF	<a href="#">5148007</a>
Thermomark Card 2.0	EML-HT...	110	300	THERMOMARK-RIBBON 110-EML-HT	<a href="#">0800342</a>
	UCT..., US..., and UM...	110	300	THERMOMARK-RIBBON 110-TC	<a href="#">0801371</a>
Thermomark Prime 2.0	UCT..., US..., and UM...	110	70	TMP-RIBBON 110 BK 100	<a href="#">0803374</a>
	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	<a href="#">0803714</a>







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	<a href="#">0803923</a>
		Cable Diameter 1.6-4.8 mm		MM-WMS 4,8 (EX9)R C1 WH/BK	<a href="#">0803924</a>
		Cable Diameter 2.1-6.4 mm		MM-WMS 6,4 (EX10)R C1 WH/BK	<a href="#">0803925</a>
		Cable Diameter 3.2-9.5 mm		MM-WMS 9,5 (EX16)R C1 WH/BK	<a href="#">0803926</a>
	Fabric Label, White, Black Printing, Adhesive	10 mm	6m	MM-EMLC (EX10)R C1 WH/BK	<a href="#">0803933</a>
		18 mm		MM-EMLC (EX18)R C1 WH/BK	<a href="#">0803936</a>
	Label, White, Black Printing, Adhesive	10 mm	8m	MM-EML (EX10)R C1 WH/BK	<a href="#">0803970</a>
		12 mm		MM-EML (EX12)R C1 WH/BK	<a href="#">0803971</a>
		18 mm		MM-EML (EX18)R C1 WH/BK	<a href="#">0803972</a>
		24 mm		MM-EML (EX24)R C1 WH/BK	<a href="#">0803973</a>
	Label, White, Black Printing, Highly Flexible, Adhesive	10 mm	8m	MM-EMLF (EX10)R C1 WH/BK	<a href="#">0803937</a>
		12 mm		MM-EMLF (EX12)R C1 WH/BK	<a href="#">0803938</a>
		18 mm		MM-EMLF (EX18)R C1 WH/BK	<a href="#">0803939</a>
		24 mm		MM-EMLF (EX24)R C1 WH/BK	<a href="#">0803940</a>
	Label, Yellow, Black Printing, Highly Flexible, Adhesive	10 mm	8m	MM-EMLF (EX10)R C1 YE/BK	<a href="#">0803941</a>
		12 mm		MM-EMLF (EX12)R C1 YE/BK	<a href="#">0803942</a>
18 mm		MM-EMLF (EX18)R C1 YE/BK		<a href="#">0803943</a>	
24 mm		MM-EMLF (EX24)R C1 YE/BK		<a href="#">0803944</a>	





Printer	Print Materials	Type	Description	Order #
BLUEMARK E.CARD	UCT..., UC..., EMP...*, EMLP...*, WMTB-AL*, UM...*	Ink cartridge	BM E.CARD-CARTR. BK 101	<a href="#">1569770</a>
		Ink cartridge	BM E.CARD-CARTR. CL 101	<a href="#">1569984</a>
		Cleaning cartridge	BM E.CARD-CLEANING CARTR. 100	<a href="#">1569768</a>

\* Requires dedicated magazine. For details see Accessories section on printer web page.

# 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?							
Installation							
Cut	Function	Conductor Size		Description	Order #	Cut 	
	Cable-Cutting Tool	Up to 35 mm²		CUTFOX 12	<a href="#">1212128</a>		
	Cable-Cutting Tool	Up to 50 mm²		CUTFOX 18	<a href="#">1212129</a>		
	Cable Tie Tool	For plastic cable ties 2.2-4.8 mm wide, up to 1.6 mm thick		UNIFOX-CT 4,8P	<a href="#">1212609</a>		
	Cable Tie Tool	For steel cable ties up to 7.9 mm wide, up to 0.3 mm thick		UNIFOX-CT 7,9M	<a href="#">1212610</a>		
	<b>1000V Rated Insulation</b>						
	Combination Plier	VDE 1000V AC/1500V DC 180mm		UNIFOX-C VDE	<a href="#">1212202</a>		
	Side Cutter	VDE 1000V AC/1500V DC 160mm		CUTFOX-S VDE	<a href="#">1212207</a>		
	Side Cutter	VDE 1000V AC/1500V DC 200mm		CUTFOX-SP VDE	<a href="#">1212206</a>		
	Cable Cutting Tool	Up to 16mm² VDE 1000V AC/1500V DC 160mm		CUTFOX 16 VDE	<a href="#">1212126</a>		
Long Nose Plier	VDE 1000V AC/1500V DC 170mm		UNIFOX-P VDE	<a href="#">1212204</a>			
Strip	<b>Single conductor</b>					Strip 	
	Function	Conductor Size	Cable Type	Description	Order #		
	Self-Adjusting Stripping Tool	0.1-4 mm²	Especially for rubber and silicone insulation	WIREFOX 4	<a href="#">1212156</a>		
	Self-Adjusting Stripping Tool	1.5-6 mm²	Especially for cables protected against short circuits and ground leakages	WIREFOX 6SC	<a href="#">1212158</a>		
	Self-Adjusting Stripping Tool	0.02-10 mm²		WIREFOX 10	<a href="#">1212150</a>		
	<b>Multi-Conductor</b>						
	Strips Sensor/Actuator Cables	Diameter 4.4-7 mm	Sensor/Actuator cables with PUR and PVC insulation	WIREFOX SAC	<a href="#">1212623</a>		
Strips Multi-Conductor Cables	Diameter 2.5-11 mm, up to 1 mm insulation	Multicore signal, control, and fiberglass wires	WIREFOX-D 11	<a href="#">1212160</a>			
Strips Large, Multi-Conductor Cables	Diameter 4.5-40 mm, up to 4.5 mm insulation		WIREFOX-D 40	<a href="#">1212161</a>			
Crimp	<b>Crimping Tools</b>					Crimp 	
	Conductor Size	Crimp Shape		Description	Order #		
	0.14-6 mm²	Square		CRIMPFOX CENTRUS 6S	<a href="#">1213144</a>		
	0.14-10 mm²	Square		CRIMPFOX CENTRUS 10S	<a href="#">1213154</a>		
	0.14-10 mm²	Trapezoid		CRIMPFOX DUO 10	<a href="#">1031721</a>		
Assemble	<b>Assembling Tools</b>					Assemble 	
	Tool			Description	Order #		
	Torque Screw Driver, Manual, Accuracy as per EN ISO 6789 Standard, Adjustable from 0.3 - 1.2 Nm			TSD-M 1,2NM	<a href="#">1212224</a>		
	Torque Screw Driver, Manual, Accuracy as per EN ISO 6789 Standard, Adjustable from 1.2 - 3 Nm			TSD-M 3NM	<a href="#">1212225</a>		
	Torque Screw Driver, Manual, Accuracy as per EN ISO 6789 Standard, Adjustable from 3 - 6 Nm			TSD-M 6NM	<a href="#">1212226</a>		
	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	<a href="#">1205202</a>		
	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	<a href="#">1204517</a>		
	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	<a href="#">1212543</a>		
	Bit Screwdriver Set with Quick-Action Chuck, 17 Pieces of 89 mm Length Slotted, Crosshead, Hex and Torx® bits			SF-M SET 2	<a href="#">1212756</a>		
	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	<a href="#">1200295</a>		
	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	<a href="#">1212544</a>		
	Tape measure, 5 m			MEASURING TAPE 5M	<a href="#">1200298</a>		
	Actuation Tool, for all 2.5 mm2 - 4.0 mm2 spring cages			ST-BW	<a href="#">1207608</a>		
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	<a href="#">1212701</a>			

# Installation (cont)

Cable Termination									
Ferrules	<b>Bootlace Ferrules</b>								
	<b>Size</b>	<b>Colour</b>	<b>Standard Pack</b>		<b>Description</b>	<b>Order #</b>			
	0.5 x 8 mm	White	100		AI 0,5-8 WH	<a href="#">3200014</a>			
	0.75 x 8 mm	Blue	100		AI 0,75-8 BU	<a href="#">3200027</a>			
	0.75 x 12 mm	Grey	100		AI 0,75-12 GY	<a href="#">3200849</a>			
	1 x 8 mm	Red	100		AI 1-8 RD	<a href="#">3200030</a>			
	1 x 12 mm	Red	100		AI 1-12 RD	<a href="#">3200674</a>			
	1.5 x 8 mm	Black	100		AI 1,5-8 BK	<a href="#">3200043</a>			
	1.5 x 18 mm	Black	100		AI 1,5-18 BK	<a href="#">3200056</a>			
	2.5 x 8 mm	Blue	100		AI 2,5-8 BU	<a href="#">3200522</a>			
	2.5 x 8 mm	Grey	100		AI 2,5-8 GY	<a href="#">3200069</a>			
	2.5 x 18 mm	Blue	100		AI 2,5-18 BU	<a href="#">3200580</a>			
	4 x 10 mm	Grey	100		AI 4-10 GY	<a href="#">3200535</a>			
	4 x 18 mm	Grey	100		AI 4-18 GY	<a href="#">3200593</a>			
	6 x 12 mm	Green	100		AI 6-12 GN	<a href="#">3200108</a>			
	6 x 18 mm	Green	100		AI 6-18 GN	<a href="#">3200111</a>			
	Twin 0.5 x 8 mm	White	100		AI-TWIN 2X 0,5-8 WH	<a href="#">3200933</a>			
	Twin 0.75 x 12 mm	Grey	100		AI-TWIN 2X 0,75-10 GY	<a href="#">3200975</a>			
	Twin 1 x 10 mm	Red	100		AI-TWIN 2X 1-10 RD	<a href="#">3200988</a>			
	Twin 1.5 x 12 mm	Black	100		AI-TWIN 2X 1,5-12 BK	<a href="#">3200991</a>			
	Twin 2.5 x 13 mm	Blue	100		AI-TWIN 2X 2,5-13 BU	<a href="#">3200878</a>			
	0.5 x 8 mm	White	1000		AI 0,5-8 WH-B	<a href="#">3201369</a>			
	0.75 x 8 mm	Blue	1000		AI 0,75-8 BU-B	<a href="#">3201547</a>			
	0.75 x 8 mm	Grey	1000		AI 0,75-8 GY-B	<a href="#">3201372</a>			
	1 x 8 mm	Red	1000		AI 1-8 RD-B	<a href="#">3201385</a>			
	1.5 x 8 mm	Black	1000		AI 1,5-8 BK-B	<a href="#">3201398</a>			
	2.5 x 8 mm	Blue	500		AI 2,5-8 BU-B	<a href="#">3201408</a>			
	2.5 x 8 mm	Grey	500		AI 2,5-8 GY-B	<a href="#">3201550</a>			
	Insulated Lugs	<b>Ring Insulated Lugs</b>							
		<b>Conductor Size</b>	<b>Colour</b>	<b>Ring Size</b>	<b>Standard Pack</b>	<b>Description</b>			<b>Order #</b>
0.5 - 1.5		Red	M3	100	C-RCI 1,5/M3	<a href="#">3240016</a>			
0.5 - 1.5		Red	M4	100	C-RCI 1,5/M4	<a href="#">3240018</a>			
0.5 - 1.5		Red	M6	100	C-RCI 1,5/M6	<a href="#">3240020</a>			
1.5 - 2.5		Blue	M3	100	C-RCI 2,5/M3	<a href="#">3240021</a>			
1.5 - 2.5		Blue	M4	100	C-RCI 2,5/M4	<a href="#">3240023</a>			
1.5 - 2.5		Blue	M6	50	C-RCI 2,5/M6	<a href="#">3240025</a>			
4 - 6		Yellow	M4	50	C-RCI 6/M4	<a href="#">3240027</a>			
4 - 6		Yellow	M6	25	C-RCI 6/M6	<a href="#">3240029</a>			
4 - 6		Yellow	M8	25	C-RCI 6/M8	<a href="#">3240030</a>			
<b>Fork Insulated Lugs</b>									
<b>Conductor Size</b>		<b>Colour</b>	<b>Fork Size</b>	<b>Standard Pack</b>	<b>Description</b>		<b>Order #</b>		
0.5 - 1.5		Red	3mm	100	C-FCI 1,5/M3		<a href="#">3240032</a>		
0.5 - 1.5		Red	4mm	100	C-FCI 1,5/M4		<a href="#">3240034</a>		
0.5 - 1.5		Red	6mm	100	C-FCI 1,5/M6		<a href="#">3240036</a>		
1.5 - 2.5		Blue	3mm	100	C-FCI 2,5/M3		<a href="#">3240037</a>		
1.5 - 2.5		Blue	4mm	100	C-FCI 2,5/M4		<a href="#">3240039</a>		
1.5 - 2.5		Blue	6mm	50	C-FCI 2,5/M6		<a href="#">3240041</a>		
4 - 6		Yellow	4mm	50	C-FCI 6/M4		<a href="#">3240042</a>		
4 - 6	Yellow	6mm	25	C-FCI 6/M6	<a href="#">3240044</a>				
4 - 6	Yellow	8mm	25	C-FCI 6/M8	<a href="#">3240045</a>				
<b>Cable Management</b>									
Cable Ties and Cable Tie Base	<b>Cable Ties</b>								
	<b>Width</b>	<b>Length</b>	<b>Standard Pack</b>		<b>Description</b>	<b>Order #</b>			
	2.5mm	98mm	100		WT-UV HF 2,5x98 BK	<a href="#">3240831</a>			
	3.6mm	140mm	100		WT-UV HF 3,6x140 BK	<a href="#">3240832</a>			
	3.6mm	200mm	100		WT-UV HF 3,6x200 BK	<a href="#">3240833</a>			
	4.5mm	200mm	100		WT-UV HF 4,5x200 BK	<a href="#">3240834</a>			
	7.8mm	365mm	100		WT-UV HF 7,8x365 BK	<a href="#">3240837</a>			
	<b>Cable Tie Bases</b>								
	<b>Width</b>	<b>Length</b>	<b>Standard Pack</b>		<b>Description</b>	<b>Order #</b>			
	19mm	19mm	Black	100	WT-BASE LS HF 4 BK	<a href="#">3240707</a>			
	19mm	19mm	Transparent	100	WT-BASE LS HF 4	<a href="#">3240706</a>			
	27mm	27mm	Black	100	WT-BASE LS HF 6 BK	<a href="#">3240709</a>			
	27mm	27mm	Transparent	100	WT-BASE LS HF 6	<a href="#">3240708</a>			

# 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	36	CD 25x25 CN	<a href="#">1566323</a>
40 mm	25 mm	2m	Gray	24	CD 25x40 CN	<a href="#">1566326</a>
60 mm	25 mm	2m	Gray	16	CD 25x60 CN	<a href="#">1566328</a>
80 mm	25 mm	2m	Gray	20	CD 25x80 CN	<a href="#">1566329</a>
40 mm	40 mm	2m	Gray	20	CD 40x40 CN	<a href="#">1566314</a>
60 mm	40 mm	2m	Gray	16	CD 40x60 CN	<a href="#">1566315</a>
80 mm	40 mm	2m	Gray	16	CD 40x80 CN	<a href="#">1566316</a>
100 mm	40 mm	2m	Gray	10	CD 40x100 CN	<a href="#">1566313</a>
40 mm	60 mm	2m	Gray	12	CD 60x40 CN	<a href="#">1566308</a>
60 mm	60 mm	2m	Gray	12	CD 60x60 CN	<a href="#">1566309</a>
80 mm	60 mm	2m	Gray	12	CD 60x80 CN	<a href="#">1566310</a>
100 mm	60 mm	2m	Gray	10	CD 60x100 CN	<a href="#">1566306</a>
60 mm	80 mm	2m	Gray	12	CD 80x60 CN	<a href="#">1566304</a>
80 mm	80 mm	2m	Gray	8	CD 80x80 CN	<a href="#">1566305</a>
100 mm	80 mm	2m	Gray	8	CD 80x100 CN	<a href="#">1566301</a>
80 mm	100 mm	2m	Gray	4	CD 100x80 CN	<a href="#">1566300</a>
100 mm	100 mm	2m	Gray	4	CD 100x100 CN	<a href="#">1566293</a>



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	<a href="#">0843103</a>
2m	10	NS 35/7,5 UNPERF 2000MM	Steel, Galvanized, Passivated with a Thick Layer	<a href="#">0843101</a>
2m	10	NS 35/15 PERF 2000MM	Steel, Galvanized, Passivated with a Thick Layer	<a href="#">0843113</a>
2m	10	NS 35/15 UNPERF 2000MM	Steel, Galvanized, Passivated with a Thick Layer	<a href="#">0843112</a>
2m	10	NS 15 PERF 2000MM	Steel, Galvanized, Passivated with a Thick Layer	<a href="#">1401682</a>



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	<a href="#">1206560</a>
100	NS 35/ 15 CAP	DIN Rail End Piece, for DIN Rail NS 35/15	<a href="#">1206573</a>
50	CLIPFIX 35	Quick Mounting End Clamp for NS 35/7,5 DIN Rail or NS 35/15 DIN Rail	<a href="#">3022218</a>
50	CLIPFIX 35-5	Quick Mounting End Clamp for NS 35/7,5 DIN Rail or NS 35/15 DIN Rail	<a href="#">3022276</a>
10	E/AL-NS 35	Aluminium End Clamp, for NS35 Fixed with 2 Screws	<a href="#">1201662</a>
50	E/NS 35 N	End Clamp for NS 35/7,5 DIN Rail or NS 35/15 DIN Rail	<a href="#">0800886</a>
50	CLIPFIX 15	Quick Mounting End Clamp for NS 15	<a href="#">3022263</a>



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)	<a href="#">1104980</a>
PPS COMPACT/SCALE-SET I/M	Measuring bar version: inches/metric	<a href="#">1105211</a>
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	<a href="#">1207585</a>
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	<a href="#">1206175</a>
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	<a href="#">1206243</a>
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	<a href="#">1207569</a>
CUTFOX-CD	Cable duct cutter, for cutting plastic cable ducts, covers, and profiles, 45° limit stop also for bevel cuts, 75 mm cutting length	<a href="#">1212474</a>

PPS BASIC I/M



PPS CD M



CUTFOX-CD





■ What application or load are you switching: electromechanical or solid state?	■ What connection technology: screw terminal (UT) or push-in (PT)?
■ What is the input-coil voltage: DC or AC?	■ Which kind of specialty relays: hazardous location, sensor/actuator, filter base?
■ What is your output current (Amps)? (Ratings are for resistive loads)	■ Resulting Phoenix Contact part number
■ How many sets of contacts do you need: SPDT, DPDT, etc.?	■ What accessories are needed?

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	<a href="#">2966906</a>
			Push-in	PLC-RPT-12 DC/21	<a href="#">2900316</a>
		DPDT - 14 mm	Screw	PLC-RSC-12 DC/21-21	<a href="#">2967235</a>
			Push-in	PLC-RPT-12 DC/21-21	<a href="#">2900329</a>
24 V DC	50 mA	SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21AU	<a href="#">2966265</a>
			Push-in	PLC-RPT-24 DC/21AU	<a href="#">2900306</a>
		SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21	<a href="#">2966171</a>
			Push-in	PLC-RPT-24 DC/21	<a href="#">2900299</a>
	6 A	DPDT - 14 mm	Screw	PLC-RSC-24 DC/21-21	<a href="#">2967060</a>
			Push-in	PLC-RPT-24 DC/21-21	<a href="#">2900330</a>
		SPDT 6.2 mm	Screw	PLC-RSC- 24DC/ 1/ACT	<a href="#">2966210</a>
			Screw	PLC-RSC- 24DC/ 1AU/SEN	<a href="#">2966317</a>
10 A	SPDT - 14 mm	Screw	PLC-RSC-24 DC/21HC	<a href="#">2967620</a>	
		Push-in	PLC-RPT-24 DC/21HC	<a href="#">2900291</a>	
	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-24UC/21	<a href="#">2966184</a>
			Push-in	PLC-RPT-24UC/21	<a href="#">2900300</a>
24 V AC or DC	6 A	DPDT - 14 mm	Screw	PLC-RSC-24UC/21-21	<a href="#">2967073</a>
			Push-in	PLC-RPT-24UC/21-21	<a href="#">2900332</a>
	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-230UC/21	<a href="#">2966207</a>
			Push-in	PLC-RPT-230UC/21	<a href="#">2900305</a>
230 V AC	6 A	DPDT - 14 mm	Screw	PLC-RSC-230UC/21-21	<a href="#">2967099</a>

PLC relay assembly with electromechanical relay

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	<a href="#">2980144</a>
			Push-in	PLC-OPT-5 DC/24 DC/2/ACT	<a href="#">2900375</a>
24 V DC	100 mA	NO ONLY - 6.2 mm	Screw	PLC-OSC-24 DC/ 48 DC/100	<a href="#">2966728</a>
			Push-in	PLC-OPT-24 DC/ 48 DC/100	<a href="#">2900352</a>
	3 A	NO ONLY - 6.2 mm	Screw	PLC-OSC-24 DC/ 24 DC/2	<a href="#">2966634</a>
			Push-in	PLC-OPT-24 DC/24 DC/2	<a href="#">2900364</a>
120 V AC or DC	3 A	NO ONLY - 6.2 mm	Screw	PLC-OSC-120UC/24 DC/2	<a href="#">2966650</a>
			Push-in	PLC-OPT-120UC/24 DC/2	<a href="#">2900355</a>

PLC Relay Assembly with Solid State Relay

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	<a href="#">2909522</a>
	10 A		Screw	PLC-RSC-12 DC/21-21/EX	<a href="#">2909517</a>
24 V DC	10 A	SPDT - 14 mm	Screw	PLC-RSC-12 DC/21/HC/EX	<a href="#">2909518</a>
			Push-in	PLC-RSC-24 DC/21/EX	<a href="#">2909524</a>
	6 A	DPDT - 14 mm	Screw	PLC-RSC-24 DC/21-21/EX	<a href="#">2909509</a>
			Push-in	PLC-RPT-24 DC/21-21/EX	<a href="#">2909514</a>
230 V AC	6 A	SPDT 6.2 mm	Screw	PLC-RSC-230UC/21/EX	<a href="#">2909526</a>
			Push-in	PLC-RPT-24 DC/21-21/EX	<a href="#">2909512</a>
	10 A	DPDT 14 mm	Screw	PLC-RSC-230UC/21-21/EX	<a href="#">2909512</a>
			Screw	PLC-RSC-230UC/21HC/EX	<a href="#">2909521</a>

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	<a href="#">5603593</a>

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	Termination Style	Description	Order #	
12 V DC	6 A	SPDT - 6.2 mm		REL-MR-12 DC/21	<a href="#">2961150</a>	
24 V DC	6 A	SPDT - 6.2 mm		REL-MR-24 DC/21	<a href="#">2961105</a>	
		DPDT - 14 mm		REL-MR-24 DC/21-21	<a href="#">2961192</a>	
230 V AC	8 A	SPDT - 16 mm		REL-MR-230AC/21-21	<a href="#">2961451</a>	
	16 A			REL-MR-230AC/21HC/MS	<a href="#">2987914</a>	
	8 A				REL-MR-230AC/21-21/MS	<a href="#">2987972</a>
Solid-State Relays						
5 V DC	3 A	SPST - 6.2 mm		OPT-5 DC/24 DC/2	<a href="#">2967989</a>	
24 V DC	3 A	SPST - 6.2 mm		OPT-24 DC/24 DC/2	<a href="#">2966595</a>	
60 V AC	3 A	SPST - 6.2 mm		OPT-60 DC/24 DC/2	<a href="#">2966605</a>	

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

**Adaptors and system cabling**  
V8 adaptor: 2295554 - PLC-V8/FLK14/OUT  
System cable 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

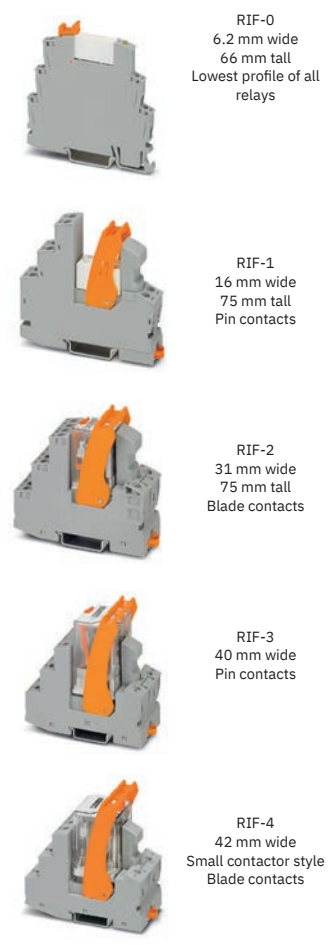
**Partition plate**  
2966841 - PLC - ATP-BK

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	<a href="#">2966236</a>	<a href="#">2966786</a>	
Blue	<a href="#">2966812</a>	<a href="#">2966692</a>	
Gray	<a href="#">2966825</a>	<a href="#">2966838</a>	

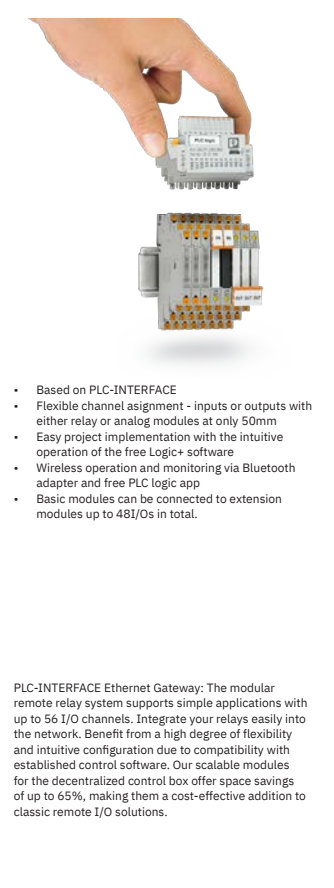
# General Purpose and Pluggable Relays

■ 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?						
■ 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	Push-in	RIF-0-RPT-12DC/ 1	<a href="#">2903362</a>
	24 V DC	6 A	NO only	Push-in	RIF-0-RPT-24DC/ 1	<a href="#">2903361</a>
RIF-1	12 V DC	11 A	SPDT	Push-in	RIF-1-RPT-LDP-12DC/1X21	<a href="#">2906224</a>
		8 A	DPDT	Push-in	RIF-1-RPT-LDP-12DC/2X21	<a href="#">2906223</a>
	24 V DC	11 A	SPDT	Push-in	RIF-1-RPT-LDP-24DC/1X21	<a href="#">2903342</a>
		8 A	DPDT	Push-in	RIF-1-RPT-LDP-24DC/2X21	<a href="#">2903334</a>
	230 V AC	50 mA	DPDT	Push-in	RIF-1-RPT-LDP-24DC/2X21AU	<a href="#">2903330</a>
		10A	1PDT	Push-in	RIF-1-RPT-LV-230AC/1X21	<a href="#">2903339</a>
		8A	2PDT	Push-in	RIF-1-RPT-LV-230AC/2X21	<a href="#">2903331</a>
RIF Ice-Cube Relays						
	Input Voltage	Output Current	Sets of Contacts	Termination Style	Description	Order #
RIF-2	24 V DC	10 A	2PDT	Push-in	RIF-2-RPT-LDP-24DC/2X21	<a href="#">2903315</a>
		6 A	4PDT	Push-in	RIF-2-RPT-LDP-24DC/4X21	<a href="#">2903308</a>
	230 V AC	5 A	4PDT	Push-in	RIF-2-RPT-LV-230AC/4X21	<a href="#">2903304</a>
RIF-3	24 V DC	8.5 A	3PDT	Push-in	RIF-3-RPT-LDP-24DC/3X21	<a href="#">2903294</a>
	230 V AC	6 A	3PDT	Push-in	RIF-3-RPT-LV-230AC/3X21	<a href="#">2903292</a>
RIF-4	24 V DC	10 A	3PDT	Push-in	RIF-4-RPT-LDP-24DC/3X21	<a href="#">2903278</a>
	230 V AC	8 A	3PDT	Push-in	RIF-4-RPT-LV-230AC/3X21	<a href="#">2903276</a>

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



Logic modules	Description	Order #
	PLC logic stand-alone module, 2nd generation, with 16I/Os, for plug-in connection to eight digital or analog PLC-INTERFACE terminal blocks, cannot be extended, real-time clock, micro USB female connector, accommodates memory module and Bluetooth adapter, screw connection.	<a href="#">2907443</a>
	PLC logic basic module, 2nd generation, with 16I/Os, for plug-in connection to eight digital or analog PLC-INTERFACE terminal blocks, can be extended to 48I/Os, real-time clock, micro USB female connector, accommodates memory module and Bluetooth adapter, screw connection.	<a href="#">2907446</a>
	PLC logic extension module with 16I/Os, for plug-in connection to eight PLC-INTERFACE terminal blocks for extending the basic module (a maximum of two extension modules can be connected to a basic module), screw connection.	<a href="#">2905137</a>
Remote Relay System - Communication Modules	Description	Order #
	PLC-INTERFACE Ethernet gateway starter kit, consisting of: plug-in base module PLC-V8R/ETH-MP/BM with 2 x RJ45 connection and multi-protocol connection (PROFINET, EtherNet/IP™ and Modbus/TCP), four relay output terminals with Push-in connection and four relay input terminals with Push-in connection.	<a href="#">1861270</a>
	PLC-INTERFACE Ethernet gateway basic module with 2x RJ45 connection and multi-protocol connection (PROFINET, EtherNet/IP™, and Modbus/TCP) with 8 I/Os, for plug-in connection to 8 digital or analog PLC-INTERFACE terminal blocks, can be extended to 56 I/Os, Push-in connection	<a href="#">1279135</a>
	PLC-INTERFACE Ethernet gateway extension module with 16 I/Os, for plug-in connection to 8 PLC-INTERFACE terminal blocks for extending the PLC-V8R.../BM basic module (max. 3 extension modules can be connected to 1 basic module), Push-in connection	<a href="#">1487020</a>
Relay output	Description	Order #
	PLC-INTERFACE, consisting of basic terminal block PLC-BSC.../21 with screw connection and plug-in miniature relay with power contact, for assembly on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC.	<a href="#">2900299</a>
	PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC.	<a href="#">2900306</a>
	PLC-INTERFACE, consisting of basic terminal block PLC-BSC.../ACT with screw connection and plug-in miniature relay with power contact, for assembly on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V DC.	<a href="#">2900312</a>
	PLC-INTERFACE with switch (operation: manual) for the functions "manual, zero, and automatic", with screw connection and integrated power contact relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V AC/DC.	<a href="#">2900328</a>
Solid-state relay output	Description	Order #
	PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 ... 48 V DC/100 A.	<a href="#">2900352</a>
	PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A.	<a href="#">2900364</a>
	PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 24 ... 253 V AC/0.75 A.	<a href="#">2900369</a>
	PLC-INTERFACE for output functions, consisting of PLC-BSC.../ACT basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/3 A.	<a href="#">2900376</a>
	PLC-INTERFACE with electronic changeover contact, consisting of PLC-BSC.../21 basic terminal block with screw connection and integrated miniature solid-state relay, for mounting on NS 35/7.5 DIN rail, 1 changeover contact, input: 24 V DC, output: 3 V DC...48 V DC/500 mA.	<a href="#">2900378</a>



# Hybrid Motor Starters

■ What type of motor start do you need?	■ What are the required functions?
■ What is the maximum load current?	■ Resulting Phoenix Contact part number (by connection technology)
■ 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
		✓	✓	✓	✓				2900573	2903908
2.4 A	24 V DC	✓		✓	✓		✓		2900567	2903916
		✓	✓	✓	✓		✓		2900414	2903904
		✓	✓	✓	✓		✓	✓	2902744	
		✓		✓	✓				2900543	2903922
9 A	24 V DC	✓		✓	✓		✓		2900569	2903918
		✓	✓	✓	✓		✓		2900421	2903906
		✓	✓	✓	✓		✓	✓	2902745	
		✓		✓	✓				2900545	2903924
		✓	✓	✓	✓				2900576	2903912
		✓		✓	✓				2900530	
		✓	✓	✓	✓				2900538	
		✓		✓	✓					
<b>Network-Capable (Gateway Required)</b>										
0.6 A	24 V DC	✓	✓	✓	✓	✓	✓			2905138
3 A	24 V DC	✓		✓	✓	✓	✓			2905142
		✓	✓	✓	✓	✓	✓			2905139
9 A	24 V DC	✓		✓	✓	✓	✓			2905143
		✓	✓	✓	✓	✓	✓			2905140

<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.

Network Gateway			
Protocol	Designation	Description	Order #
Profisafe	EM-PSAFE-GATEWAY-IFS	Gateway for the connection of up to 15 Interface system devices to a higher-level safe controller via PROFIsafe. The system devices are connected to the gateway via DIN rail connectors. The DIN rail connectors are provided.	1188207
Profinet	EM-PNET-GATEWAY-IFS	Gateway for the connection of up to 32 Interface system devices to a higher-level controller via PROFINET. The Interface system devices are connected to the gateway via DIN rail connectors. The DIN rail connectors are provided.	2904472
EtherNet/IP™	EM-ETH-GATEWAY-IFS	Gateway for the connection of up to 32 Interface system devices to a higher-level controller via EtherNet/IP™. The Interface system devices are connected to the gateway via DIN rail connectors. The DIN rail connectors are provided.	2901988
Profibus DP	EM-PB-GATEWAY-IFS	Gateway for the connection of up to 32 Interface system devices to a higher-level controller via PROFIBUS DP. The Interface system devices are connected to the gateway via DIN rail connectors. The DIN rail connectors are provided.	2297620
Modbus TCP	EM-MODBUS-GATEWAY-IFS	Gateway for the connection of up to 32 Interface system devices to a higher-level controller via Modbus/TCP. The Interface system devices are connected to the gateway via DIN rail connectors. The DIN rail connectors are provided.	2901528
CANopen®	EM-CAN-GATEWAY-IFS	Gateway for the connection of up to 32 Interface system devices to a higher-level controller via CANopen®. The Interface system devices are connected to the gateway via DIN rail connectors. The DIN rail connectors are provided.	2901504

Solid State Contactors					
Maximum Load Current	Input Voltage	Functions		Single-Phase	3-Phase
		Direct Starter	Reversing Starter		
20 A	24 V DC	✓		1032919	
	230 V AC	✓		1032920	
30 A	24 V DC	✓		1032921	
	230 V AC	✓		1032922	
37 A	24 V DC	✓	✓		2297374
50A	24 V DC	✓		1032926	
	230 V AC	✓		1032927	

**Reverse running**  
Optional: reversing function including locking circuit and load wiring.

**Motor protection**  
Convenient protection with the electronic motor protection relay with automatic and remote reset function.








**Forward running**  
Easy control directly via 24 V PLC output cards or 230 V AC signal.

**Emergency stop**  
The integrated safety function enables use in safety-related emergency stop applications.

# CONTRACTRON Speed Starter

■ Is the input single- or three-phased?			■ Housing and dimension specifications		
■ What is the size of your motor?			■ Resulting Phoenix Contact part number		
■ What is your nominal current (input/output)?					
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	<a href="#">1201520</a>
0.37 kW/0.5 HP	5.3 A	2.5 A	A2	CSS0.37-1/3-EMC	<a href="#">1201600</a>
0.55 kW/0.7 HP	6.7 A	3.2 A	B2	CSS0.55-1/3-EMC	<a href="#">1201602</a>
0.75 kW/1.0 HP	9.1 A	4.3 A	B2	CSS0.75-1/3-EMC	<a href="#">1201613</a>
1.5 kW/2.0 HP	15.8 A	7.5 A	B2	CSS1.5-1/3-EMC	<a href="#">1201642</a>
<b>Three-phase load input, with EMC filter<sup>1</sup></b>					
0.25 kW/0.3 HP	1.0 A	1.0 A	A2	CSS0.25-3/3-EMC	<a href="#">1201713</a>
0.37 kW/0.5 HP	1.7 A	1.7 A	A2	CSS0.37-3/3-EMC	<a href="#">1201825</a>
0.55 kW/0.7 HP	2.0 A	2.0 A	A2	CSS0.55-3/3-EMC	<a href="#">1201828</a>
0.75 kW/1.0 HP	2.8 A	2.8 A	A2	CSS0.75-3/3-EMC	<a href="#">1201829</a>
1.5 kW/2.0 HP	4.28 A	4.28 A	B2	CSS1.5-3/3-EMC	<a href="#">1201696</a>
<b>Three-phase load input, with EMC filter<sup>1</sup></b>					


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

Housing <sup>2</sup>					
					
<b>Description</b>	A1	A2	B1 heatsink	B1 fan	B2
<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**

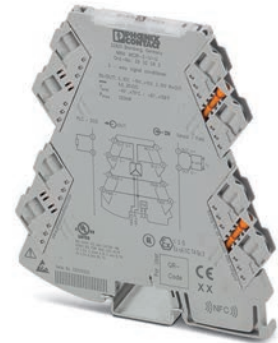
Fully-adjustable soft motor start and shutdown.



# 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 V ... 10 V	0 V ... 10 V	MINI MCR-2-U-U	<a href="#">2902042</a>	
		4 mA ... 20 mA	MINI MCR-2-U-I4	<a href="#">2902029</a>	
	4 mA ... 20 mA	0 V ... 10 V	MINI MCR-2-I4-U	<a href="#">2902002</a>	
		4 mA ... 20 mA	MINI MCR-2-I-I	<a href="#">2901998</a>	
Universal and Configurable Analog Signal conversion and isolation					
Module Power	Input Signal	Output Signal	Description	Order #	
Line	0 V ... 10 V	4 mA ... 20 mA	MINI MCR-2-U-I4-PT	<a href="#">2902030</a>	
		4 mA ... 20 mA (HART)	4 mA ... 20 mA (HART)	MINI MCR-2-RPSS-I-I	<a href="#">2902014</a>
	Voltage	Voltage	MINI MCR-2-U-U-PT	<a href="#">2902043</a>	
		Voltage/current	MINI MCR-2-U-UI	<a href="#">2902019</a>	
	Voltage/current	Relay	MINI MCR-2-UI-REL-PT	<a href="#">2902035</a>	
		Transistor	MINI MCR-2-UNI-UI-UIRO	<a href="#">2902026</a>	
		Transistor	MINI MCR-2-UI-UI	<a href="#">2902037</a>	
		Voltage/current	MINI MCR-2-UNI-UI-ZUI	<a href="#">2905026</a>	
Temperature Signal Conversion and Isolation					
Module Power	Input Signal	Output Signal	Description	Order #	
Loop	RTD	Voltage/current	MINI MCR-2-RTD-UI	<a href="#">2902049</a>	
			Thermocouple (TC)	MINI MCR-2-TC-UI	<a href="#">2902055</a>
	Temperature (RTD/TC)	Relay	MINI MCR-2-T-REL	<a href="#">2905632</a>	
		PT100	4 mA ... 20 mA	MINI MCR-SL-PT100-LP-NC	<a href="#">2810308</a>
Low-Power Signal Conversion and Isolation					
Module Power	Input Signal	Output Signal	Description	Order #	
Loop	Voltage/current	4 mA ... 20 mA (passive)	4 mA ... 20 mA (passive)	<a href="#">2902061</a>	
		4 mA ... 20 mA	4 mA ... 20 mA (active)	MINI MCR-2-2I-2I-ILP	<a href="#">2901994</a>
	4 mA ... 20 mA	4 mA ... 20 mA (active)	MINI MCR-2-UI-I-OLP	<a href="#">2901996</a>	
		4 mA ... 20 mA	4 mA ... 20 mA (passive)	MINI MCR-2-RPS-I-I-OLP	<a href="#">2906446</a>
		4 mA ... 20 mA	4 mA ... 20 mA (passive)	MINI MCR-2-RPS-2I-2I-OLP	<a href="#">2906448</a>
Specialty Signal Conversion and Isolation					
Module Power	Input Signal	Output Signal	Description	Order #	
Line	4 mA ... 20 mA (HART)	4 mA ... 20 mA (HART)	MINI MCR-2-RPSS-I-2I	<a href="#">2905628</a>	
		Voltage/current	Frequency/transistor	MINI MCR-2-UI-FRO	<a href="#">2902031</a>
	Frequency and PWM	Transistor	MINI MCR-2-F-UI	<a href="#">2902056</a>	
	Potentiometer	Voltage/current	MINI MCR-2-POT-UI	<a href="#">2902016</a>	
	Voltage/current	Relay	MINI MCR-2-UI-REL	<a href="#">2902033</a>	

MINI MCR-2



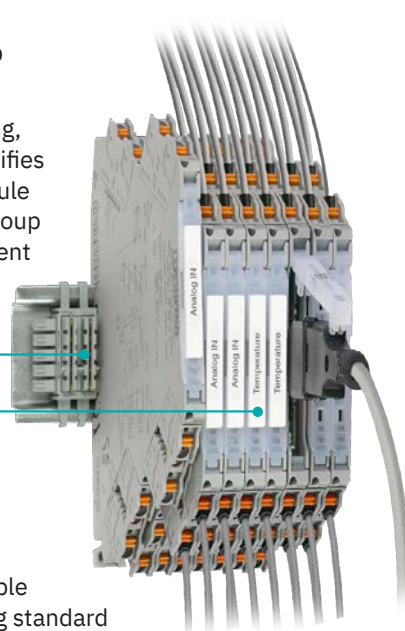
Automation



Discover: [the new highly compact MINI Analog Pro Ex i signal conditioners - A milestone in miniaturization!](#)

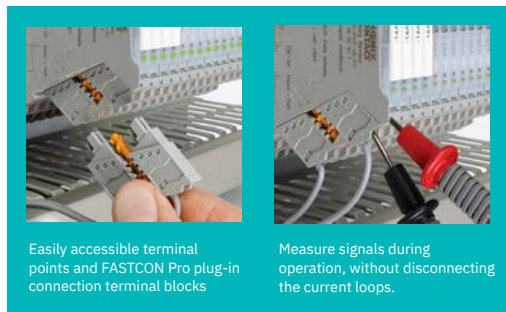
## Rapid power bridging and group error messaging

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.

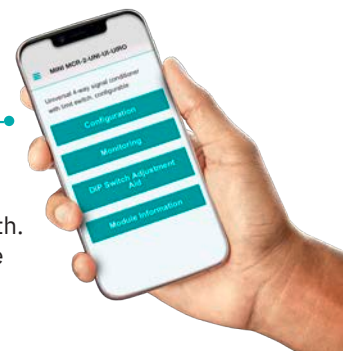


Easily accessible terminal points and FASTCON Pro plug-in connection terminal blocks

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.



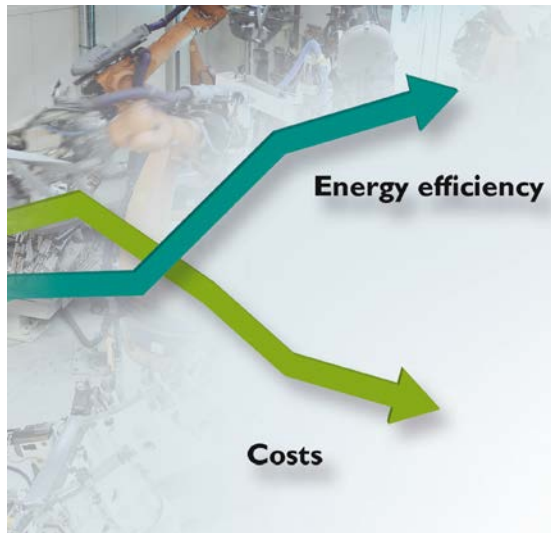
# Ethernet Switches

## Unmanaged Switches

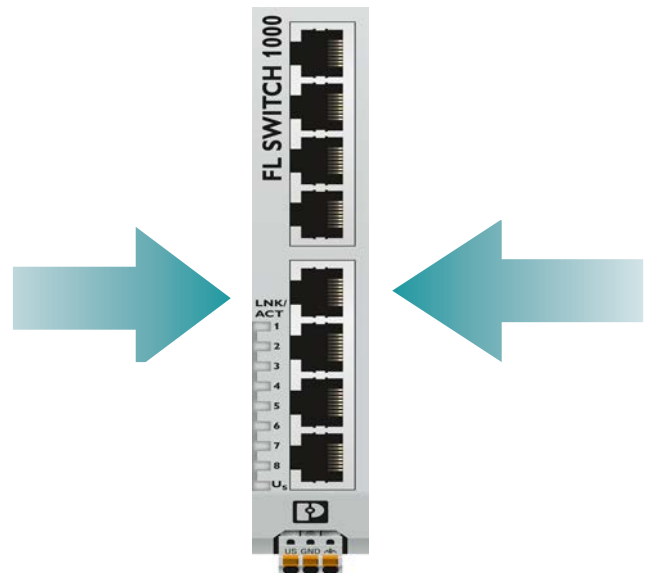
■ How many copper ports are required?		■ Is higher IP rating needed in the application?					
■ Are specialty ports required: Power Over Ethernet (PoE) and/or fiber optic?		■ Is extended temperature needed?					
■ What are the total number of ports required?		■ Resulting Phoenix Contact part number					
■ What speed is required in the network?							
Unmanaged Switch 1000							
Copper Ports	Specialty Ports	Total Ports	Speed	IP65 / IP67	Extended Temperature	Type Description	Order #
4	1 x SC	5	10/100	N	N	FL SWITCH 1004N-FX SM	<a href="#">1085214</a>
4	1 x ST	5	10/100	N	N	FL SWITCH 1004N-FX ST	<a href="#">1085179</a>
4	1 x SC-D	5	10/100	N	N	FL SWITCH 1004N-FX	<a href="#">1084159</a>
4	1 x SFP	5	Gigabit	N	N	FL SWITCH 1104N-SFP	<a href="#">1085173</a>
4	1 x SFP	5	Gigabit	N	Y	FL SWITCH 1104NT-SFP	<a href="#">1343023</a>
4	1 x SFP	5	10/100	N	N	FL SWITCH 1004N-SFX	<a href="#">1085177</a>
4	1 x SFP	5	10/100	N	Y	FL SWITCH 1004NT-SFX	<a href="#">1085169</a>
5	-	5	10/100	N	N	FL SWITCH 1005N	<a href="#">1085039</a>
5	-	5	Gigabit	N	N	FL SWITCH 1105N	<a href="#">1085254</a>
5	-	5	10/100	N	Y	FL SWITCH 1005NT	<a href="#">1085170</a>
5	-	5	Gigabit	N	Y	FL SWITCH 1105NT	<a href="#">1085163</a>
5	5 x M12	5	Gigabit	Y	Y	FL SWITCH 1705 M12	<a href="#">1386090</a>
5	2 x SFP	7	Gigabit	N	N	FL SWITCH 1105N-2SFP	<a href="#">1085171</a>
5	2 x SFP	7	10/100	N	N	FL SWITCH 1005N-2SFX	<a href="#">1085176</a>
5	2 x SFP	7	10/100	N	Y	FL SWITCH 1005NT-2SFX	<a href="#">1085164</a>
5	2 x SFP	7	Gigabit	N	Y	FL SWITCH 1105NT-2SFP	<a href="#">1343025</a>
8	-	8	10/100	N	N	FL SWITCH 1008N	<a href="#">1085256</a>
8	-	8	Gigabit	N	N	FL SWITCH 1108N	<a href="#">1085243</a>
8	-	8	10/100	N	Y	FL SWITCH 1008NT	<a href="#">1085165</a>
8	-	8	Gigabit	N	N	FL SWITCH 1108N	<a href="#">1085243</a>
8	-	8	Gigabit	N	N	FL SWITCH 1108N-NE	<a href="#">1738638</a>
8	-	8	Gigabit	N	Y	FL SWITCH 1108T	<a href="#">1085088</a>
8	-	8	10/100	N	Y	FL SWITCH 1108T	<a href="#">1085094</a>
8	-	8	Gigabit	N	Y	FL SWITCH 1108T	<a href="#">1085162</a>
-	8 x M12	8	10/100	Y	N	FL SWITCH 1608	<a href="#">1196227</a>
-	8 x M12	8	Gigabit	Y	N	FL SWITCH 1708	<a href="#">1196228</a>
8	-	8	Gigabit	N	N	L SWITCH 1108 REG	<a href="#">1473643</a>
4	4 x POE	8	Gigabit	N	N	FL SWITCH 1104-4POE REG	<a href="#">1473642</a>
12	2 x SFP	14	10/100	N	Y	FL SWITCH 1012NT-2SFP	<a href="#">1249598</a>
16	-	16	10/100	N	N	FL SWITCH 1016N	<a href="#">1085255</a>
16	-	16	Gigabit	N	N	FL SWITCH 1116N	<a href="#">1085219</a>
16	-	16	Gigabit	N	Y	FL SWITCH 1116T	<a href="#">1085115</a>
24	-	24	10/100	N	Y	FL SWITCH 1024T	<a href="#">1343027</a>



Phoenix Contact Ethernet Unmanaged Switch conforms to Energy-Efficiency Ethernet Standard IEEE 802.3az



Space-saving due to reduced width



# 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	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	-	FL SWITCH 2005	<a href="#">2702323</a>		
8 x RJ45	-	-		-	FL SWITCH 2008	<a href="#">2702324</a>		
16 x RJ45	-	-		-	FL SWITCH 2016	<a href="#">2702903</a>		
5 x RJ45	-	-	10/100/1,000 Mbps	-	FL SWITCH 2105	<a href="#">2702665</a>		
8 x RJ45	-	-		-	FL SWITCH 2108	<a href="#">2702666</a>		
16 x RJ45	-	-		-	FL SWITCH 2116	<a href="#">2702908</a>		
<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	FL SWITCH 2205	<a href="#">2702326</a>		
6 x RJ45	2 x SC MM	-			FL SWITCH 2206-2FX	<a href="#">2702330</a>		
6 x RJ45	2 x SCMM	-			FL SWITCH 2206C-2FX	<a href="#">1095628</a>		
6 x RJ45	2 x SFP	-			FL SWITCH 2206-2SFX PN	<a href="#">1044028</a>		
7 x RJ45	1 x SC SM	-			FL SWITCH 2207-FX SM	<a href="#">2702329</a>		
7 x RJ45	1 x SC MM	-			FL SWITCH 2207-FX	<a href="#">2702328</a>		
8 x RJ45	-	-			FL SWITCH 2208	<a href="#">2702327</a>		
8 x RJ45	-	-			FL SWITCH 2208 PN	<a href="#">1044024</a>		
8 x RJ45	-	-			FL SWITCH 2208C	<a href="#">1095627</a>		
6 x RJ45	2 x ST SM	-			FL SWITCH 2206-2FX SM ST	<a href="#">2702333</a>		
6 x RJ45	2 x ST MM	-			FL SWITCH 2206-2FX ST	<a href="#">2702332</a>		
4 x RJ45	2 x SFP	2			FL SWITCH 2204-2TC-2SFX	<a href="#">2702334</a>		
6 x RJ45	2 x SC SM	-			FL SWITCH 2206-2FX SM	<a href="#">2702331</a>		
6 x RJ45	2 x SFP	-			FL SWITCH 2206-2SFX	<a href="#">2702969</a>		
14 x RJ45	2 x SC SM	-			FL SWITCH 2214-2FX SM	<a href="#">2702906</a>		
14 x RJ45	2 x SC MM	-			FL SWITCH 2214-2FX	<a href="#">2702905</a>		
14 x RJ45	2 x SFP	-			FL SWITCH 2214-2SFX	<a href="#">1006188</a>		
14 x RJ45	2 x SFP	-			FL SWITCH 2214-2SFX PN	<a href="#">1044030</a>		
16 x RJ45	-	-			FL SWITCH 2216	<a href="#">2702904</a>		
16 x RJ45	-	-			FL SWITCH 2216 PN	<a href="#">1044029</a>		
12 x RJ45	2 x SFP	2			FL SWITCH 2212-2TC-2SFX	<a href="#">2702907</a>		
8 x RJ45	-	-			FL SWITCH 2308	<a href="#">2702652</a>		
4 x RJ45	2 x SFP	2			FL SWITCH 2304-2GC-2SFP	<a href="#">2702653</a>		
6 x RJ45	2 x SFP	-			FL SWITCH 2306-2SFP	<a href="#">2702970</a>		
6 x RJ45	2 x SFP	-			FL SWITCH 2306-2SFP PN	<a href="#">1009222</a>		
14 x RJ45	2 x SFP	2			FL SWITCH 2312-2GC-2SFP	<a href="#">2702910</a>		
14 x RJ45	2 x SFP	-			FL SWITCH 2314-2SFP	<a href="#">1006191</a>		
14 x RJ45	-	-			FL SWITCH 2314-2SFP PN	<a href="#">1031683</a>		
<b>IP65/IP66/IP67 Intelligent Switches for Universal Use: Switch 2600 and 2700</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								
8 x M12	-	-			10/100 Mbps	IP65/IP66/IP67	FL SWITCH 2608	<a href="#">1106500</a>
8 x M12	-	-			10/100/1,000 Mbps		FL SWITCH 2608 PN	<a href="#">1106616</a>
8 x M12	-	-					FL SWITCH 2708	<a href="#">1106615</a>
8 x M12	-	-	FL SWITCH 2708 PN	<a href="#">1106610</a>				



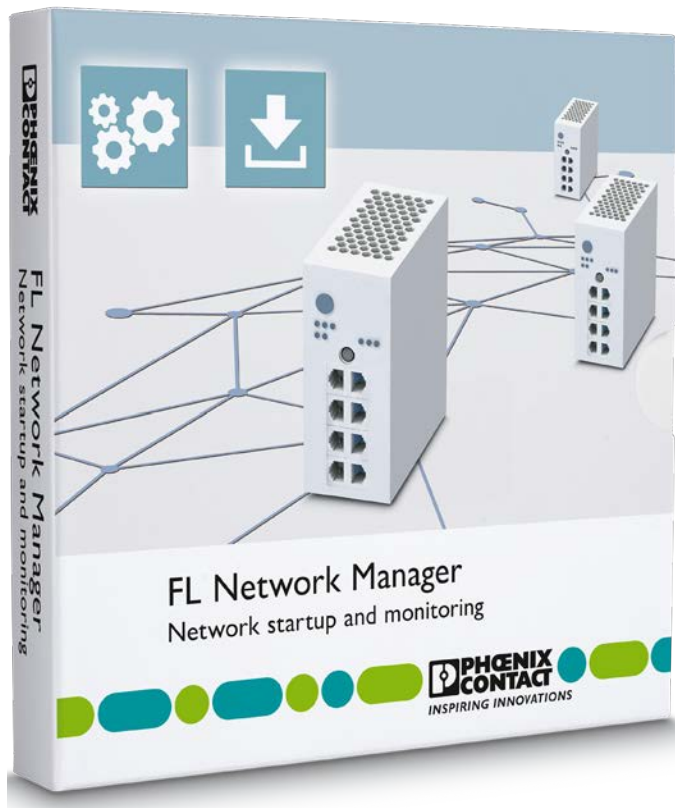
Automation

## Managed Switches (cont.)

Stainless Steel Intelligent Switches for Universal Use: Switch 2400 and 2500						
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						
8 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	FL SWITCH 2408	<a href="#">1043412</a>
8 x RJ45	-	-			FL SWITCH 2408 PN	<a href="#">1089133</a>
6 x RJ45	2 x SFP	-			FL SWITCH 2406-2SFX	<a href="#">1043414</a>
6 x RJ45	2 x SFP	-			FL SWITCH 2406-2SFX PN	<a href="#">1089126</a>
4 x RJ45	2 x SFP	2			FL SWITCH 2404-2TC-2SFX	<a href="#">1088853</a>
16 x RJ45	-	-			FL SWITCH 2416	<a href="#">1043416</a>
16 x RJ45	-	-			FL SWITCH 2416 PN	<a href="#">1089150</a>
14 x RJ45	2 x SFP	-			FL SWITCH 2414-2SFX	<a href="#">1043423</a>
14 x RJ45	2 x SFP	-			FL SWITCH 2414-2SFX PN	<a href="#">1089139</a>
12 x RJ45	2 x SFP	2			FL SWITCH 2412-2TC-2SFX	<a href="#">1088875</a>
4 x RJ45	2 x SFP	2			FL SWITCH 2504-2GC-2SFP	<a href="#">1088872</a>
6 x RJ45	2 x SFP	-			FL SWITCH 2506-2SFP	<a href="#">1043491</a>
6 x RJ45	2 x SFP	-			FL SWITCH 2506-2SFP PN	<a href="#">1089135</a>
8 x RJ45	-	-			FL SWITCH 2508	<a href="#">1043484</a>
8 x RJ45	-	-	FL SWITCH 2508 PN		<a href="#">1089134</a>	
14 x RJ45	2 x SFP	-	FL SWITCH 2514-2SFP		<a href="#">1043499</a>	
14 x RJ45	2 x SFP	-	FL SWITCH 2514-2SFP PN		<a href="#">1089154</a>	
12 x RJ45	2 x SFP	2	FL SWITCH 2512-2GC-2SFP		<a href="#">1088856</a>	
16 x RJ45	-	-	FL SWITCH 2516		<a href="#">1043496</a>	
16 x RJ45	-	-	FL SWITCH 2516 PN		<a href="#">1089205</a>	



## FL Network Manager



The FL NETWORK MANAGER simplifies configuration and company management. Commission your network quickly and easily with the FL NETWORK MANAGER network management software.

The software provides support for the following steps:

- Scanning an existing network
- IP assignment and device configuration
- Multi-device configuration
- Configuration file handling
- Firmware update
- SNMP scripting

# PoE and Installation Technology

■ How many copper ports are required?	■ Is IP rating needed in the application?
■ Are specialty ports required: Power Over Ethernet (PoE) and/or fiber optic?	■ Does the application require unmanaged or managed switch?
■ What are the total number of ports required?	■ Resulting Phoenix Contact part number
■ What speed is required in the network?	



POE SWITCH							
Copper Ports	Specialty Ports	Total Ports	Speed	IP 67 rating	Type	Description	Order #
	8 x PoE+	8	Gigabit	Y	Unmanaged	FL SWITCH 1701 7POE	<a href="#">1119230</a>
	8 x PoE+	8	10/100	N	Unmanaged	FL SWITCH 1000N-8POE	<a href="#">1343031</a>
1 x RJ45	4 PoE+	5	10/100	N	Unmanaged	FL SWITCH 1001T-4POE	<a href="#">2891064</a>
-	2 PoE+/2 Fiber SFP	4	Gigabit	N	Unmanaged	FL SWITCH 1000T-2POE-GT-2SFP	<a href="#">1026765</a>
-	8 PoE+/2 Fiber SFP	10		N	Unmanaged	FL SWITCH 1000-8POE-GT	<a href="#">1102079</a>
1 x RJ45	4 PoE+/1 Fiber SFP	6		N	Unmanaged	FL SWITCH 1001T-4POE-GT-SFP	<a href="#">1026932</a>
1 x RJ45	4 PoE+	5		N	Unmanaged	FL SWITCH 1001-4POE-GT	<a href="#">1102077</a>
1 x RJ45	4 PoE+	5		N	Unmanaged	FL SWITCH 1001T-4POE-GT	<a href="#">1026937</a>
-	4 PoE+/1 Fiber SFP	5		N	Managed	FL SWITCH 4000T-4POE-SFP	<a href="#">1026924</a>
-	8 PoE+/2 Fiber SFP	10		N	Managed	FL SWITCH 4000T-8POE-2SFP	<a href="#">1026923</a>
4 x RJ45	8 PoE+/4 Fiber SFP	16		N	Managed	FL SWITCH 4004T-8POE-4SFP	<a href="#">1026922</a>
-	8 PoE+	8		N	Unmanaged	FL SWITCH 1000-8POE	<a href="#">1342622</a>
-	8 PoE+	8		N	Unmanaged	FL SWITCH 1100-8POE	<a href="#">1343034</a>
-	5 PoE+ / 2 Fiber SFP	7		N	Unmanaged	FL SWITCH 1100-SPOE-2SFP	<a href="#">1342621</a>
-	8 PoE+ / 2 Fiber SFP	10		N	Unmanaged	FL SWITCH 1100T-8POE-2SFP	<a href="#">1467018</a>

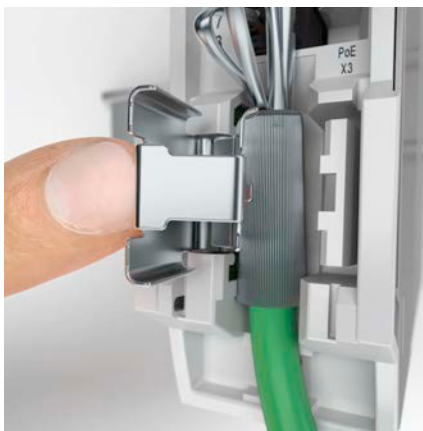


Automation

■ 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?	

POE Injector							
	Connection Method	Temperature Range	Power Budget	Special Features	PoE Standard	Designation	Order #
	RJ45/RJ45	0°C to +60°C	15/30 W	-	IEEE 802.3 af/at (PoE+)	INJ 1000	<a href="#">2703005</a>
			60 W	Electrical isolation in the power supply unit	Prepared for PoE bt (PoE++)	INJ 1010	<a href="#">2703007</a>
		-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 1000-T	<a href="#">2703006</a>
			60 W		Prepared for PoE bt (PoE++)	INJ 1010-T	<a href="#">2703008</a>
			15/30 W		IEEE 802.3 af/at (PoE+)	INJ 1100-T	<a href="#">2703009</a>
			60 W		Prepared for PoE bt (PoE++)	INJ 1110-T	<a href="#">2703010</a>
	RJ45/IDC	15/30 W	IEEE 802.3 af/at (PoE+)	INJ 2102-T	<a href="#">2703012</a>		
		60 W	Prepared for PoE bt (PoE++)	INJ 2112-T	<a href="#">2703014</a>		
		15/30 W	IEEE 802.3 af/at (PoE+)	INJ 2103-T	<a href="#">1004065</a>		
	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	<a href="#">2703011</a>
					Prepared for PoE bt (PoE++)	INJ 2113-T	<a href="#">1004066</a>
	RJ45/Screw		60 W		Prepared for PoE bt (PoE++)	INJ 2111-T	<a href="#">2703013</a>

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



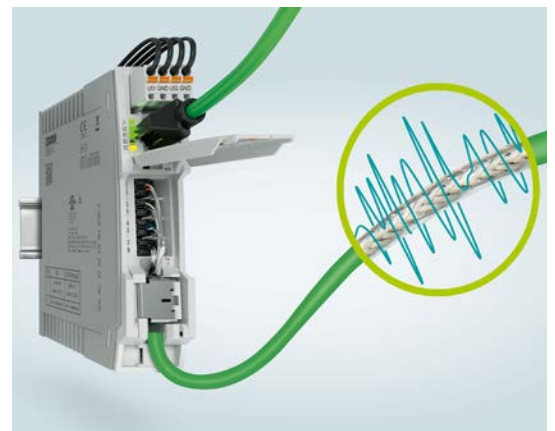
### Toolless Shield Connection

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.



### Overvoltage Protection

The integrated surge protection protects the application against sudden high voltages in the data cable and improves system reliability and availability.

What's the voltage range?			What wireless technology used?			
What's the temperature range?			Does the Application requires internal or external antenna?			
What's the wireless frequency?			Resulting Phoenix Contact part number			
Wireless Ethernet						
Voltage Range	Temperature Range	Wireless Frequency	Wireless Technology	Antenna / IO	Description	Order #
9-30 VDC	0°C to 60°C	2.4 / 5 GHz	Bluetooth/WLAN a, b, g, n	internal	FL EPA 2	<a href="#">1005955</a>
9-30 VDC	-40°C to 65°C	2.4 / 5 GHz	Bluetooth/WLAN a, b, g, n	external	FL EPA 2 RSMA	<a href="#">1005957</a>
9-30 VDC	-40°C to 65°C	2.4 GHz	Bluetooth	internal	FL BT EPA 2	<a href="#">1005869</a>
9-32 VDC	-30 C to 60 C	2.4 / 5 GHz	Wifi 6	external	FL WLAN 1020	<a href="#">2702992</a>
9-32 VDC	-30 C to 60 C	2.4 / 5 GHz	Wifi 6	internal	FL WLAN 1120	<a href="#">1386091</a>
9-32 VDC	-30 C to 60 C	2.4 / 5 GHz / 6GHz	Wifi 6 / 6E	external	FL WLAN 1022	<a href="#">1752493</a>
9-32 VDC	-30 C to 60 C	2.4 / 5 GHz / 6GHz	Wifi 6 / 6E	internal	FL WLAN 1122	<a href="#">1752496</a>
PoE / 24VDC	-40 C to 70 C	-	GPS, Galileo, GLONASS, and BeiDou	internal	FL TIMESERVER NTP	<a href="#">1107132</a>
Wireless Serial / IO						
10.8-30.5 VDC	-40°C to 70°C	900 MHz	Trusted Wireless	-	RAD-900-IFS-AU	<a href="#">2702878</a>
19.2-30.5 VDC	-40°C to 70°C	2.4 GHz	Trusted Wireless	-	RAD-2400-IFS	<a href="#">2901541</a>
19.2-30.5 VDC	-40°C to 70°C	-	-	-	RAD-RS485-IFS	<a href="#">2702184</a>
19.2-30.5 VDC	-40°C to 70°C	-	-	Digital Inputs	RAD-DI4-IFS	<a href="#">2901535</a>
19.2-30.5 VDC	-40°C to 70°C	-	-	Relay Outputs	RAD-DOR4-IFS	<a href="#">2901536</a>
19.2-30.5 VDC	-40°C to 70°C	-	-	Digital Inputs	RAD-DI8-IFS	<a href="#">2901539</a>
19.2-30.5 VDC	-40°C to 70°C	-	-	Digital Transistor Outputs	RAD-DO8-IFS	<a href="#">2902811</a>
19.2-30.5 VDC	-40°C to 70°C	-	-	Analogue Inputs	RAD-AI4-IFS	<a href="#">2901537</a>
19.2-30.5 VDC	-40°C to 70°C	-	-	Analogue Outputs	RAD-AO4-IFS	<a href="#">2901538</a>
19.2-30.5 VDC	-40°C to 70°C	-	-	Digital Inputs and Outputs, 1 Analogue Input and Output	RAD-DAI06-IFS	<a href="#">2901533</a>
19.2-30.5 VDC	-40°C to 70°C	-	-	RTD PT100 Inputs	RAD-PT100-4-IFS	<a href="#">2904035</a>
19.2-30.5 VDC	-40°C to 70°C	-	-	NAMUR Digital Inputs	RAD-NAM4-IFS	<a href="#">2316275</a>



## WLAN

Secure and reliable ethernet wireless connections for industrial application.



## TRUSTED WIRELESS


Quick and easy startup and configuration in Mesh networks of up to 250 devices and 32 Km range.



# Industrial Wireless (cont.)

## SMS Relay

**4G/LTE mobile interface. Switching via phone call and SMS, alerting via SMS and email, message in the event of power failure**


Voltage Supply	Analog Input	Digital Input	Relay Output	Designation	Order #	
DC supply (10 V DC ... 60 V DC)	2	4	4	TC MOBILE I/O X200-4G	<a href="#">1038567</a>	



## Antennas


What's the antenna type?	What's the connection?
What's the frequency?	Resulting Phoenix Contact part number
What's the 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	<a href="#">2701362</a>	
Omnidirectional	2.4 GHz/5 GHz	2.5 dBi/5 dB	N (Female)	ANT-OMNI-2459-02	<a href="#">2701408</a>	
Omnidirectional	2.4 GHz/5 GHz / 6 GHz	2.0 dBi/2.5 dBi/3.0 dBi	N (Male)	ANT-OMNI-2459-04	<a href="#">1284780</a>	
Omnidirectional	2.4 GHz	6 dBi	N (Female)	RAD-ISM-2400-ANT-OMNI-6-0	<a href="#">2885919</a>	
Directional	2.4 GHz/5 GHz	9 dBi	N (Female)	ANT-DIR-2459-01	<a href="#">2701186</a>	
Omnidirectional	900 MHz	2 dBi	RSMA (Male)	RAD-900-ANT-OMNI-2-2-RSMA	<a href="#">2904801</a>	
Directional	900 MHz	5 dBi	N (Female)	RAD-ISM-900-ANT-YAGI-3-N	<a href="#">2867801</a>	
Directional	900 MHz	8.5 dBi	N (Female)	RAD-ISM-900-ANT-YAGI-6.5-N	<a href="#">2867814</a>	

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**

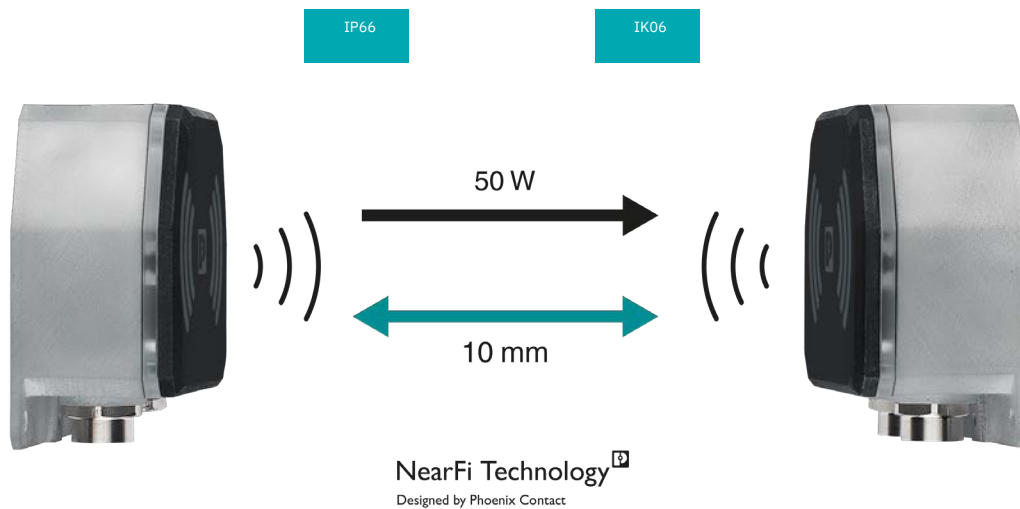
Connection	Length	Attenuation	Description	Order #	
N (Male) -> RSMA (Male)	0.5 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-0.5	<a href="#">2903263</a>	
N (Male) -> RSMA (Male)	1 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-1	<a href="#">2903264</a>	
N (Male) -> RSMA (Male)	2 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-2	<a href="#">2903265</a>	
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	<a href="#">2903266</a>	
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	<a href="#">2702140</a>	
2x N (Male)	3 m	1.0 / 1.5 / 2.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-CAB-PPF240-10	<a href="#">5606124</a>	
2x N (Male)	6 m	1.0 / 1.5 / 2.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-CAB-PPF400-20	<a href="#">5606125</a>	

## Industrial Wireless (cont.)

What is the input voltage?	What is the type of wireless transmission the application requires?				
What is distance between coupler and remote devices?	Resulting Phoenix Contact part number				
What is the type of coupler?					
<b>NearFi – Power and Data contactless transmission</b>					
Input Voltage	Distance (at 25°)	Type	Wireless Transmission	Description	Order #
24 VDC	0 ... 10 mm	Base	Power + Ethernet Data	NEARFI 2200 B	<a href="#">1433050</a>
24 VDC	0 ... 10 mm	Remote	Power + Ethernet Data	NEARFI 2200 R	<a href="#">1433049</a>
24 VDC	0 ... 10 mm	Base	Power	NEARFI 200 B	<a href="#">1433047</a>
24 VDC	0 ... 10 mm	Remote	Power	NEARFI 200 R	<a href="#">1433046</a>
24 VDC	0 ... 10 mm	Remote	Power	NEARFI 300 R	<a href="#">1509989</a>
24 VDC	0 ... 10 mm	Base	Power	NEARFI 300 B	<a href="#">1464614</a>
24 VDC	0 ... 100 mm	Base	Ethernet Data	NEARFI 2000 B	<a href="#">1433041</a>
24 VDC	0 ... 100 mm	Remote	Ethernet Data	NEARFI 2000 R	<a href="#">1433040</a>
24 VDC	0 ... 7 mm	Remote	Power + IO-Link Data	NF PD IOL B	<a href="#">1736167</a>
24 VDC	0 ... 7 mm	Base	Power + IO-Link Data	NF PD IOL R	<a href="#">1736165</a>






## NearFi Technology – Contactless Ethernet Real-time Data and Power Transmission



# 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?		
<b>mGuard</b>			
			
<b>Model</b>	FL mGuard 2102	FL mGuard 2105	FL mGuard 4302
<b>Order #</b>	1357828	1357850	1357840
<b>C1D2</b>	No	No	No
<b>LAN Ports Available</b>	2	5	2
<b>Temperature</b>	-20°C -> +60°C	-20°C -> +60°C	-40°C -> +60°C
<b>mGuard Secure Cloud Compatible</b>	Yes	Yes	Yes
<b>External Memory</b>	SD	SD	SD
<b>Full Stateful Firewall</b>	Yes	Yes	Yes
<b>VPN Hub Capability</b>	Yes	Yes	Yes
<b>DMZ Capability</b>	No	No	Yes
<b>Cellular and GPS Capability</b>	No	No	No
<b>Failover from Wired to Cell</b>	No	No	No









### mGuard Device Manager

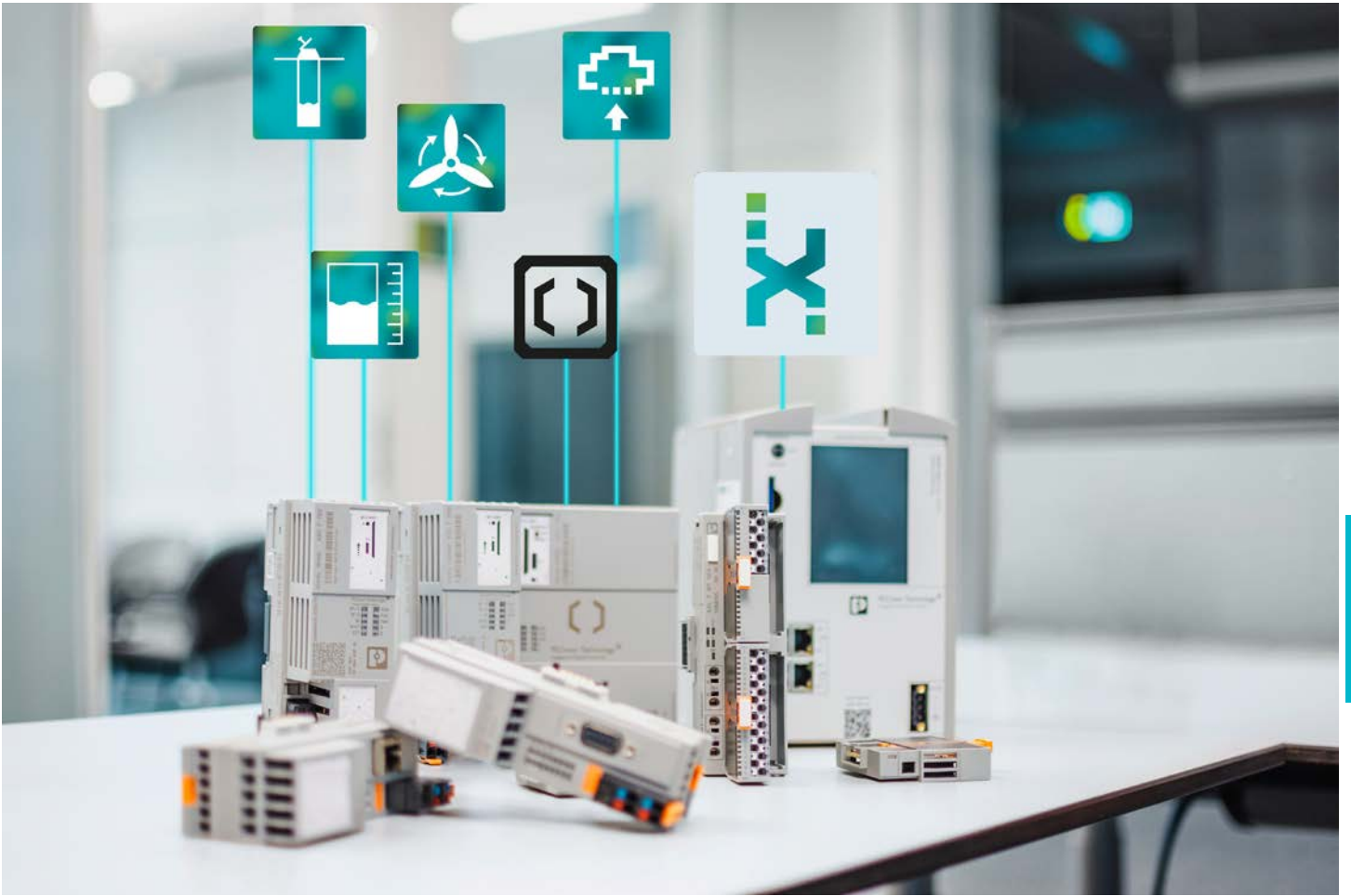
Device management software for security routers and firewalls



## From fieldbus through to Industrial Ethernet

Use device servers to convert serial interfaces such as RS-232, RS-422, and RS-485 to other standards, such as Ethernet (RJ45), with protocol transparency. Gateways and protocol converters convert various fieldbus and Ethernet protocols (e.g., PROFIBUS to PROFINET), thus enabling the easy integration of legacy serial devices and fieldbuses into modern Ethernet networks.

<span style="color: #00A651;">■</span> What protocol do you need to convert? <span style="color: #00A651;">■</span> How many Ethernet interfaces does the application need? <span style="color: #00A651;">■</span> How many Serial interfaces does the application need?		<span style="color: #C0392B;">■</span> Does the application require special approvals or special features? <span style="color: #3498DB;">■</span> What is the designation? <span style="color: #F1C40F;">■</span> Phoenix Contact order number				
	Protocol	Ethernet Interface	Serial Interface	Special Features	Designation	Item #
	Protocol Transparent	1 x RJ45	1 x D-SUB 9	ATEX, IECEX, UL (C1D2)	GW DEVICE SERVER 1E/1DB9	<a href="#">2702758</a>
			2 x D-SUB 9		GW DEVICE SERVER 1E/2DB9	<a href="#">2702760</a>
		2 x RJ45	4 x D-SUB 9		GW DEVICE SERVER 2E/2DB9	<a href="#">2702761</a>
					GW DEVICE SERVER 2E/4DB9	<a href="#">2702763</a>
	MQTT to MODBUS RTU / ASCII / TCP	1 x RJ45	1 x D-SUB 9		GW MQTT/MODBUS 1E/1DB9	<a href="#">1380010</a>
			2 x D-SUB 9		GW MQTT/MODBUS 1E/2DB9	<a href="#">1380012</a>
		2 x RJ45	4 x D-SUB 9		GW MQTT/MODBUS 2E/2DB9	<a href="#">1380014</a>
					GW MQTT/MODBUS 2E/4DB9	<a href="#">1380015</a>
	MODBUS RTU/ASCII to MODBUS TCP	1 x RJ45	1 x D-SUB 9		GW MODBUS TCP/ RTU 1E/1DB9	<a href="#">2702764</a>
			2 x D-SUB 9		GW MODBUS TCP/ RTU 1E/2DB9	<a href="#">2702765</a>
		2 x RJ45	4 x D-SUB 9		GW MODBUS TCP/ RTU 2E/2DB9	<a href="#">2702766</a>
					GW MODBUS TCP/ RTU 2E/4DB9	<a href="#">2702767</a>
	Modbus RTU/ ASCII/TCP to EtherNet/IP™	1 x RJ45	1 x D-SUB 9	ATEX, IECEX, UL (Class I, Division 2)	GW EIP/MODBUS 1E/1DB9	<a href="#">1062540</a>
			2 x D-SUB 9		GW EIP/MODBUS 1E/2DB9	<a href="#">1062423</a>
		2 x RJ45	4 x D-SUB 9		GW EIP/MODBUS 2E/2DB9	<a href="#">1062380</a>
					GW EIP/MODBUS 2E/4DB9	<a href="#">1062388</a>
	Modbus RTU/ AS CII/TCP to PROFINET	1 x RJ45	1 x D-SUB 9		GW PN/MODBUS 1E/1DB9	<a href="#">1105707</a>
			2 x D-SUB 9		GW PN/MODBUS 1E/2DB9	<a href="#">1105708</a>
		2 x RJ45	4 x D-SUB 9		GW PN/MODBUS 2E/2DB9	<a href="#">1105709</a>
					GW PN/MODBUS 2E/4DB9	<a href="#">1105710</a>
	PROFIBUS DP to PROFINET	1x RJ45	1x D-SUB 9	FDT/DTM	GW PN/DP 1E/2DB9	<a href="#">1108712</a>
	IO-Link to PROFINET, Modbus/TCP, and OPC UA	2 x RJ45	8 x DI		IOL MA8 PN DI8	<a href="#">1072838</a>
IO-Link to EtherNet/IP™, Modbus/TCP, and OPC UA	IOL MA8 EIP DI8				<a href="#">1072839</a>	




# PLCnext Technology

Designed by PHOENIX CONTACT

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.




What is the CPU?	What is the main feature the application requires?	CPU Designation	Resulting Phoenix Contact part number
<b>PLCnext Control</b>			
CPU	Feature	Designation	Order #
2152*	Standard Application	AXC F 2152	<a href="#">2404267</a>
3152*	3 independent Ethernet Interfaces	AXC F 3152	<a href="#">1069208</a>
4072S*	Integrated PROFIsafe Safety Controller	AXC F 4072S	<a href="#">1051328</a>
4072R*	Redundancy functionality	AXC F 4072R	<a href="#">1136419</a>
VL3 EDGE	Edge device with Virtual PLCnext Control	VL3 UPC 2440 EDGE	<a href="#">1760157</a>
9102S	Box PC with integrated PROFIsafe safety Controller	BPC 9102S	<a href="#">1246285</a>



\*Depending on the application, a Program / Configuration memory is required. (Part number: 1061701, 1043501, 1151112 or 1151111)

What CPU is compatible to the functionality?	What new functionality is required by the application?	CPU Designation	Resulting Phoenix Contact part number
<b>Left-alignable PLCnext Extension Modules*</b>			
Compatible CPU	Functionality	Designation	Order #
2152 / 3152	Interbus	AXC F XT IB	<a href="#">2403018</a>
2152 / 3152	Profibus	AXC F XT PB	<a href="#">1091657</a>
2152	Ethernet	AXC F XT ETH 1TX	<a href="#">2403115</a>
2152 / 3152	Safety	AXC F XT SPLC 1000	<a href="#">1159811</a>
3152	Machine Learning	AXC F XT ML 1000	<a href="#">1259849</a>
2152 / 3152	PCIe	AXC F XT EXP	<a href="#">1139999</a>



\*AXC BS L 2 – 1064312 required to connect left alignable modules

# Axioline F for the Control Cabinet

The screenshot shows the Project+ software interface with a control cabinet layout. The cabinet is 320.8 mm wide and contains six stations. The left panel lists digital inputs (DI) and digital outputs (DO). The right panel shows a list of components with their positions, counts, and articles. Below the screenshot is a 3D rendering of the Project+ I/O Project Planning software box, which features the Phoenix Contact logo and the text 'Project+3 I/O Project Planning'.

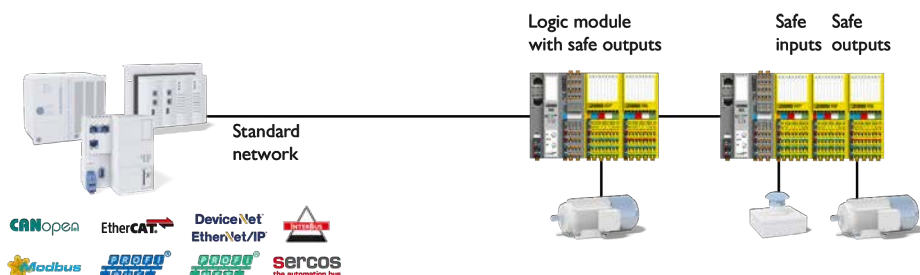
Automation

## Project+ - I/O Project Planning – Easy and intuitive free software







Protocol	What is the designation?	Resulting Phoenix Contact part number?					
<b>Network Connection</b>							
Bus Couplers	Protocol	Designation	Order #	Bus couplers	Protocol	Designation	Order #
	Bus Coupler for PROFINET	AXL F BK PN TPS	<a href="#">2403869</a>		Modbus Bus Coupler for Modbus TCP	AXL F BK ETH	<a href="#">2688459</a>
	EtherCAT Bus Coupler for EtherCAT	AXL F BK EC	<a href="#">2688899</a>		PROFIBUS Bus Coupler for PROFIBUS	AXL F BK PB	<a href="#">2688530</a>
	EtherNet/IP Bus Coupler for EtherNet/IP™	AXL F BK EIP	<a href="#">2688394</a>				

\*Up to 63 modules can be connected to the bus couplers

## Axioline Bus Coupler - SafetyBridge Technology compatible



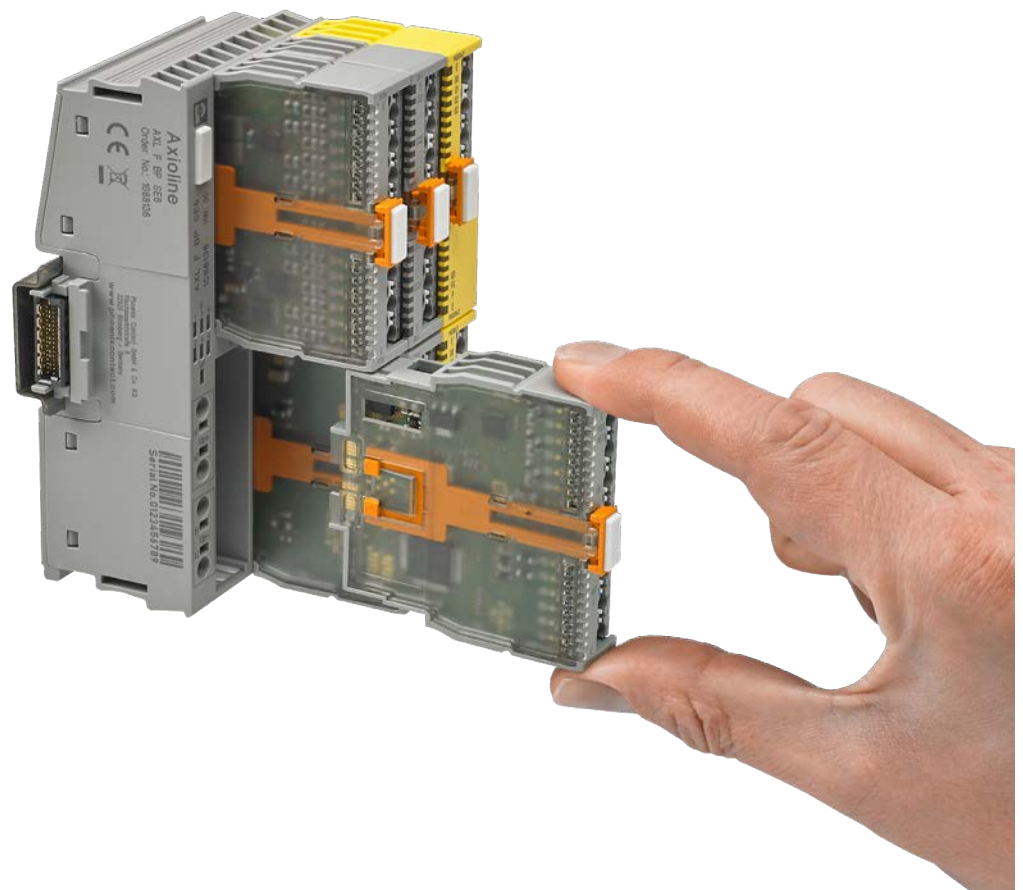
# Axioline F I/O Modules

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

## 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	Type	Input	Output	Order #
AXL F BP SE4	Backplane 4 slots	-	-	<a href="#">1088135</a>
AXL F BP SE6	Backplane 6 slots	-	-	<a href="#">1088136</a>
AXL SE DI16/1	Digital	16	-	<a href="#">1088127</a>
AXL SE DI16/1 NPN	Digital	16	-	<a href="#">1105559</a>
AXL SE DO16/1	Digital	-	16	<a href="#">1088129</a>
AXL SE DO16/1 NPN	Digital	-	16	<a href="#">1105560</a>
AXL SE DO4/2 2A EF	Digital	-	4	<a href="#">1181790</a>
AXL SE DOR2 W 230	Digital	-	2	<a href="#">1105562</a>
AXL SE INC1 ASYM	Encoder Inc	1	-	<a href="#">1182185</a>
AXL SE INC1 SYM	Encoder Inc	1	-	<a href="#">1088130</a>
AXL SE CNT1	Counter	1	-	<a href="#">1088131</a>
AXL SE AI4 I 4-20	Analog	4	-	<a href="#">1088062</a>
AXL SE AI4 I 0-20	Analog	4	-	<a href="#">1296378</a>
AXL SE AI4 U 0-10	Analog	4	-	<a href="#">1088104</a>
AXL SE AO4 I 4-20	Analog	-	4	<a href="#">1088123</a>
AXL SE AO4 I 0-20	Analog	-	4	<a href="#">1296372</a>
AXL SE AO4 U 0-10	Analog	-	4	<a href="#">1088126</a>
AXL SE RTD4 PT100	Temperature	4	-	<a href="#">1088106</a>
AXL SE RTD4 PT1000	Temperature	4	-	<a href="#">1182190</a>
AXL SE UTH4 EF	Temperature	4	-	<a href="#">1182068</a>
AXL SE PSDI8/3	PROFIsafe	8	-	<a href="#">1079241</a>
AXL SE PSDO4/2 2A	PROFIsafe	-	4	<a href="#">1079231</a>
AXL SE SSDI8/3	SafetyBridge	8	-	<a href="#">1190012</a>
AXL SE SSDO4/2 2A	SafetyBridge	-	4	<a href="#">1190017</a>
AXL SE IOL4	IO-Link	-	-	<a href="#">1088132</a>
AXL SE RS485	RS 485	-	-	<a href="#">1088128</a>
AXL SE RS232	RS 232	-	-	<a href="#">1181787</a>
AXL SE SC	Slot Cover	-	-	<a href="#">1167159</a>
AXL SE SC-A	Slot Cover	-	-	<a href="#">1088134</a>



# Control Cabinet Lights

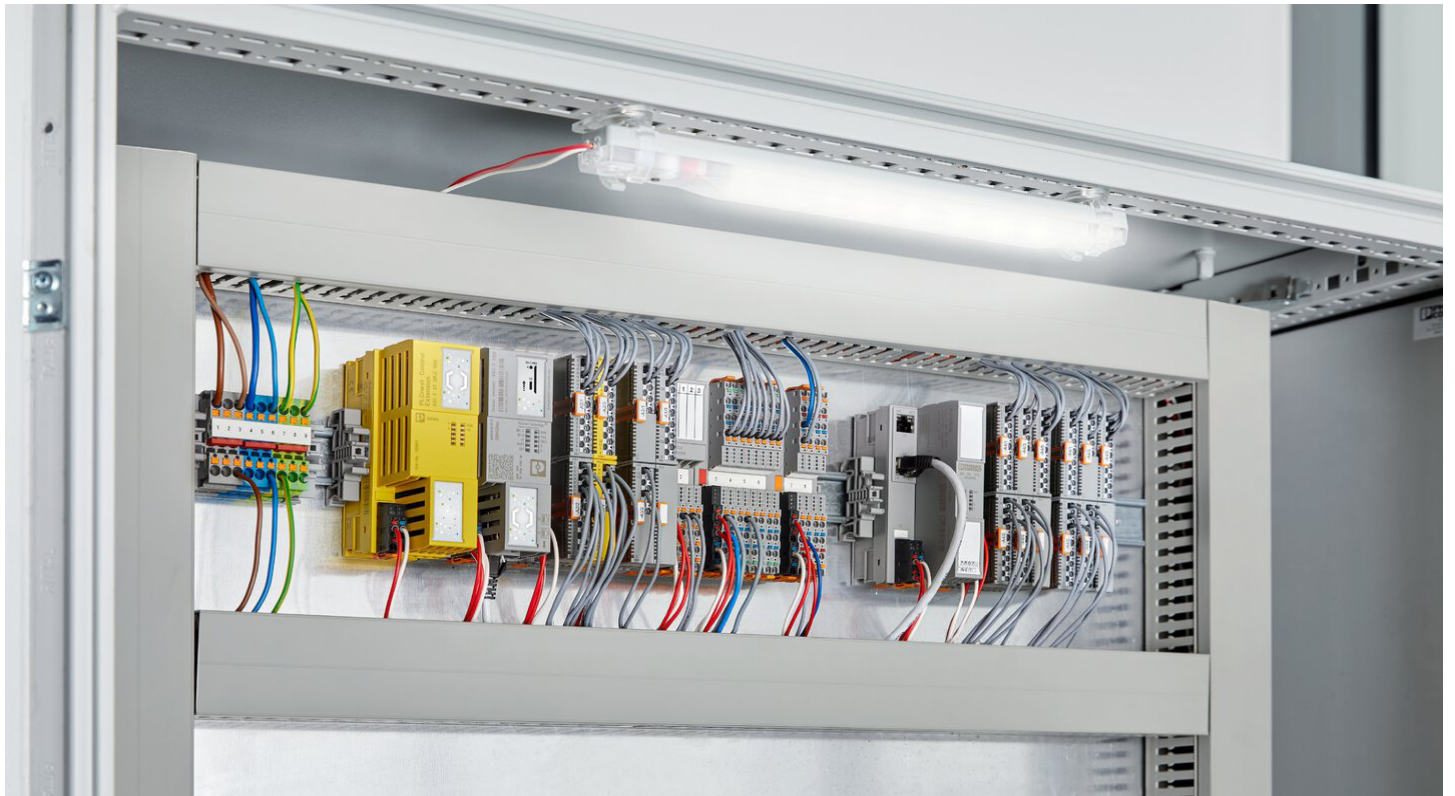
## Enclosure Lights

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 #	<a href="#">1319569</a>	<a href="#">1319573</a>
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
Supply Voltage Range	24 V AC/ DC ... 265 V AC / DC	24 V AC/ DC ... 265 V AC / DC
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








## HMI panels and industrial PCs







Operate and monitor your system states efficiently with our Human Machine Interfaces (HMIs) and industrial PCs (IPCs).

Benefit from maximum scalability for the operating concept of your automation solution. Perform demanding control and networking tasks in a straightforward manner with our intelligent industrial PCs. At the same time, the sophisticated visualization software supports fast and safe intervention in machine processes.

# Human-Machine Interface (HMI)

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
Order #	<a href="#">1060549</a>	<a href="#">1060632</a>	<a href="#">1060630</a>
Display (in inches)	4.3	7	10.1
Colours	16.7 Million		
Resolution (W x H in pixels)	480 x 272 (WQVGA)	800 x 480 (WVGA)	1024 x 600 (WVGA)
Brightness (in cd/m <sup>2</sup> )	400	350	
Backlight (MTTF in h)	20,000	25,000	
Touch Technology	Polyester, Analog Resistive		
Processor	i.MX 6DualLite, 454 MHz		
Temperature Range	Operation: 0°C to +50°C Storage: -20°C to +85°C		
Degree of Protection (Front/Back)	IP66/IP20		
Approvals	UL/cUL		

HMIs for HTML5 Applications						
Model View						
Designation	WP 6070-WVPS	WP 6101-WXPS	WP 6121-WXPS	WP 6156-WHPS	WP 6185-WHPS	WP 6215-WHPS
Order #	<a href="#">1290800</a>	<a href="#">1290801</a>	<a href="#">1290802</a>	<a href="#">1290807</a>	<a href="#">1290807</a>	<a href="#">1290809</a>
Display (in inches)	7	10.1	12.1	15.6	18.5	21.5
Colours	16.7 Million					
Resolution (w x h in pixels)	800 x 480 (WQVGA)	1280 x 800 (WVGA)		1920 x 1080 (Full HD)		
Brightness (in cd/m <sup>2</sup> )	500	500	400	450	350	400
Backlight (MTTF in h)	50,000					
Touch Technology	Projective-Capacitive (PCAP)					
Processor	Arm® Cortex®-A53, 1.6 GHz					
Temperature Range	Operation: -20°C to +50°C, Storage: -25°C to +60°C					
Degree of Protection (Front/Back)	IP66/IP20					
Approvals	UL/cUL					






 Download:  
[HMI & Industrial PCs Catalogue](#)









 Learn more:  
[Compact Industrial PCs Product List](#)

# Human-Machine Interface (HMI)

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?	

Visu+ Touch Panel for Basic Application			
Model View			
Designation	BTP 2043W	BTP 2070W	BTP2102W
Order #	<a href="#">1050387</a>	<a href="#">1046666</a>	<a href="#">1046667</a>
Display (in inches)	4.3	7	10.1
Colours	262,144		
Resolution (W x H in pixels)	480 x 272 (WQVGA)	800 x 480 (WVGA)	1024 x 600 (WVGA)
Brightness (in cd/m2)	400	300	
Backlight (MTTF in h)	25,000		
Touch Technology	Polyester, Analog Resistive		
Processor	Arm® Cortex®-A7, 700 MHz i.MX6 UL		
Temperature Range	Operation: 0°C to +50°C Storage: -20°C to +85°C		
Degree of Protection (Front/Back)	IP65/IP20		
Approvals	UL/cUL		

Visu+ Touch Panel for Standard Application						
Model View						
Designation	TP 6070-WVPS	TP 6101-WXPS	TP 6121-WXPS	TP 6156-WHPS	TP 6185-WHPS	TP 6215-WHPS
Order #	<a href="#">1189629</a>	<a href="#">1190417</a>	<a href="#">1190420</a>	<a href="#">1190421</a>	<a href="#">1190423</a>	<a href="#">1190424</a>
Display (in inches)	7	10.1	12.1	15.6	18.5	21.5
Colours	16.7 Million					
Resolution (w x h in pixels)	800 x 480 (WQVGA)	1280 x 800 (WVGA)		1920 x 1080 (Full HD)		
Brightness (in cd/m2)	500	500	400	450	350	400
Backlight (MTTF in h)	50,000					
Touch Technology	Projective-Capacitive (PCAP)					
Processor	Arm® Cortex®-A9, 800 MHz					
Temperature Range	Operation: -20°C to +50°C, Storage: -25°C to +60°C					
Degree of Protection (Front/Back)	IP66/IP20					
Approvals	UL/cUL					

Automation

## Industrial PC (IPC)



### VL3 Series IPC - A configurable IPC that truly suits your application with the best-in-class technology

- Celeron and Intel i3, Intel i5 or Intel i7 11th Gen Processors Options
- Panel PC size from 15,6" to 21,5"
- SSD M.2 up to 960 GB
- Optional TPM 2.0 technology
- Optional Additional Serial Ports
- Optional WLAN Mini PCIe

# Functional Safety



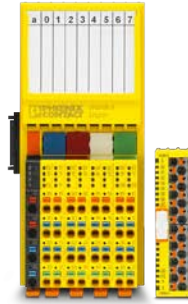
**Safety switch**  
Use our non-contact safety switches with RFID technology for intelligent safety door and position monitoring.



**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 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	Order #	
											PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	In mm		Screw connection	Push-in connection
PSR-MS201 24 V DC	●	●	-	●	-	-	A	1	-	-	1	c	1	6.8	<a href="#">2904950</a>	-
PSR-MS251 24 V DC	●	●	-	●	-	-	M	1	-	-	1	c	1	6.8	<a href="#">2904951</a>	-
PSR-MS403 24 V DC	●	●	-	-	-	●	A	1	-	-	1	e	3	6.8	<a href="#">2904954</a>	-
PSR-MS603 24 V DC	●	●	●	●	-	●	A	2	-	-	-	e	3	6.8	<a href="#">2904958</a>	-
PSR-MC32 24...230 V DC	●	●	●	●	-	●	A/M	3	-	1	-	e	3	22.5	<a href="#">2700524</a>	-

## PSR-UNI: Multifunction safety relays with 2 safety functions in one device

PSR-UNI-L-1X4NO-1DO-24DC-PI	●	●	●	●	●	●	A/M	4	-	-	-	e	3	22.5	<a href="#">1487648</a>	-
PSR-UNI-L-2X2NO-2DO-24DC-PI	●	●	●	●	●	●	A/M	2	-	-	-	e	3	22.5	<a href="#">1487644</a>	-
PSR-UNI-L-1X4NO-1DO-24DC-SC	●	●	●	●	●	●	A/M	4	-	-	-	e	3	22.5	<a href="#">1487649</a>	-
PSR-UNI-L-2X2NO-2DO-24DC-SC	●	●	●	●	●	●	A/M	2	-	-	-	e	3	22.5	<a href="#">1487647</a>	-








## PSRclassic: Conventional safety relays for machine building

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	Push-in connection
PSR-ESA2-B 24 V AC/DC	●	●	-	-	-	-	A	4	-	1	-	c2)	12)	-	<a href="#">2963802</a>	<a href="#">2963954</a>
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	-	<a href="#">2981059</a>	<a href="#">2981062</a>
PSR-THC4 <sup>5)</sup> 24 V AC/DC	-	●	-	-	●	-	A	2	-	1	-	e	3	-	<a href="#">2963721</a>	<a href="#">2963983</a>
PSR-URM4 42 to 230 V AC/DC	Contact extension							4	-	2	-	e	3	-	<a href="#">2702924</a>	<a href="#">2702925</a>
PSR-URM4 24 V DC	Contact extension							5	-	2	-	e	3	-	<a href="#">1442021</a>	<a href="#">1442026</a>








# Functional Safety

 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, safe coupling relays for the process industry

Type	Applications	Output Contacts			Diagnostics/Proof Test				Safety Approvals					Width	Order #
					Visual via LED	Active Error Acknowledgment via A12)	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		
	Highly compact, safe coupling relays for failsafe controllers				●	●	●	-	3	3	●	●	●	In mm	Screw Connection
PSR-PS20 24 V DC	For safety-related shutdown (ESD)	1	1	1	●	●	●	-	3	3	●	●	●	6.8	<a href="#">2700356</a>
PSR-PS21 24 V DC		1	1	1	●	●	●	-	2	2	●	●	●	6.8	<a href="#">2700357</a>
PSR-PS23 24 V DC		1	1	-	●	-	●	-	3	3	●	●	●	6.8	<a href="#">2702663</a>





## PSRclassic: Classic, safe coupling relays for the process industry


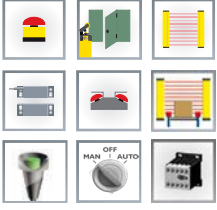
Type	Applications	Output Contacts			Diagnostics/Proof Test				Safety Approvals					Width	Order #
					Visual via LED	Active Error Acknowledgment via A12)	Measurement on the Device	Self-Monitoring with Interlocking	SIL in accordance with IEC 61508 / 61511	SIL in Accordance with IEC 50156	ATEX / IECEx / Class I Zone 2	G3 in Accordance with ANSI / ISA-S71.04	GL		
	Highly compact, safe coupling relays for failsafe controllers				●	●	●	-	3	3	●	●	●	In mm	Screw Connection
PSR-FSP 24 V DC	For safety-related shutdown (ESD)	1	1	-	-	-	●	-	3	3	-	-	●	17.5	<a href="#">2981978</a>
PSR-FSP/2x1 24 V DC		2	1	-	-	-	●	-	3	3	-	-	●	17.5	<a href="#">2986960</a>

## PSRMotion: Relays for motion monitoring

Type	Sensor Type			Application		Output Contacts		Safe Standards			Order #	
				n=0	n < n <sub>max</sub>			Category in accordance with EN ISO 13849-1	PL in accordance with EN ISO 13849-1	SIL in accordance with EN 62061	Screw connection	Push-in connection
												
PSR-MM20 24 V DC	-	-	●	●	●	2	1	4	e	3	<a href="#">2702374</a>	<a href="#">2702375</a>
PSR-MM25 24 V DC	●	-	-	●	-	1	2	3	e	3	<a href="#">2702355</a>	<a href="#">2702356</a>
PSR-MM30 24 V DC	-	●	●	●	●	2	2	4	e	3	<a href="#">2702357</a>	<a href="#">2702358</a>
PSR-MM35 24 V DC	●	-	-	-	●	1	1	4	e	3	<a href="#">1249515</a>	<a href="#">1249516</a>

# Force-guided Contact Relays

■ What application or load are you switching: electromechanical or solid state?		■ What connection technology: screw terminal (UT) or push-in (PT)?							
■ What is the input-coil voltage: DC or AC?		■ Resulting Phoenix Contact part number							
■ What is your output current (Amps)? (Ratings are for resistive loads)									
■ How many sets of contacts do you need: SPDT, DPDT, etc.?									
<b>Electromechanical Relays</b>									
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	<a href="#">2910535</a>				
			Push-In	PLC-RPT- 24DC/2X21/FG	<a href="#">2910537</a>				
<b>RIF Slimline Relays</b>									
24 V DC	6 A	DPDT - 14 mm	Push-In	RIF-1-RPT-LDP-24DC/2X21/FG	<a href="#">2908215</a>				
<b>PSRswitch: Non-Contact RFID Safety Switches</b>									
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.			-	-	<a href="#">2702976</a>		
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.			-	-	<a href="#">2702972</a>		
PSR-CT-M-SEN-1-8		Multicode: The sensor accepts all actuators. It is not necessary to teach them in during commissioning.			-	-	<a href="#">2702975</a>		
PSR-CT-C-ACT	Actuator	Coded, suitable for all sensor coding types			-	-	<a href="#">2702973</a>		
PSR-MC42	Safety Relay	With integrated IO-Link interface			<a href="#">2702901</a>	<a href="#">2702902</a>	-		
SAC-8PY-M/2XF BK 1-PSR	Y Distributor	Type 1 for series connection of PSR-CT safety circuits			-	-	<a href="#">1054338</a>		
SAC-8PY-M/2XF BK 2-PSR		Type 2 for manual startup behaviour			-	-	<a href="#">1054339</a>		
SAC-8PY-M/2XF BK 3-PSR		Type 3 for integrated diagnostics via signal contact with PSR-CT safety circuits			-	-	<a href="#">1054341</a>		
SAC-5P-M12MS BK BR 1-2-4	Bridge Plug	Dummy plug for every sensor circuit			-	-	<a href="#">1054366</a>		
<b>PSRswitch: Magnetic Safety Switches</b>									
Type	Description	Design				Connection Technology		Order #	
		Function	With LED indicator	Rectangular small (RS)	Rectangular large (RL)	Circle	M8 connection	M8 connection with cable (4-wire pigtail)	
PSR-MIS-RS-S-NONO-C-3,0PVC	Sensor	-	-	●	-	-	-	3m	<a href="#">1534519</a>
PSR-MIS-RS-S-NONO-C-5,0PVC	Sensor	-	-	●	-	-	●	5m	<a href="#">1534480</a>
PSR-MIS-RS-S-NONO-M8,4P	Sensor	-	-	●	-	-	-	-	<a href="#">1534518</a>
PSR-MIS-RS-S-NONC-C-3,0PVC	Sensor	-	-	●	-	-	-	3m	<a href="#">1534515</a>
PSR-MIS-RS-S-NONC-C-5,0PVC	Sensor	-	-	●	-	-	-	5m	<a href="#">1534496</a>
PSR-MIS-RS-S-NONC-M8-4P <sup>1)</sup>	Sensor	●	-	●	-	-	●	-	<a href="#">1534492</a>
PSR-MIS-RS-A-N	Actuator	-	-	●	-	-	-	-	<a href="#">1534482</a>
PSR-MIS-RS-A-R	Actuator	-	-	●	-	-	-	-	<a href="#">1534476</a>
PSR-MIS-RS-P	Spacer plate	-	-	●	-	-	-	-	<a href="#">1534476</a>
PSR-MIS-RL-S-NONO-C-3,0PVC	Sensor	-	-	-	●	-	-	3m	<a href="#">1533277</a>
PSR-MIS-RL-S-NONO-C-5,0PVC	Sensor	-	-	-	●	-	-	5m	<a href="#">1533278</a>
PSR-MIS-RL-S-NONO-M8-4P	Sensor	-	-	-	●	-	●	-	<a href="#">1533225</a>
PSR-MIS-RL-S-NONC-C-3,0PVC	Sensor	-	-	-	●	-	-	3m	<a href="#">1533191</a>
PSR-MIS-RL-S-NONC-C-5,0PVC	Sensor	-	-	-	●	-	-	5m	<a href="#">1533190</a>
PSR-MIS-RL-S-NONC-M8,4P	Sensor	-	-	-	●	-	●	-	<a href="#">1533189</a>
PSR-MIS-RL-A-N	Actuator	-	-	-	●	-	-	-	<a href="#">1533188</a>
PSR-MIS-RL-A-R	Actuator	-	-	-	●	-	-	-	<a href="#">1533187</a>
PSR-MIS-RL-P	Spacer plate	-	-	-	●	-	-	-	<a href="#">1533185</a>
PSR-MIS-C-S-NONO-C-3,0PVC	Sensor	-	-	-	-	●	-	3m	<a href="#">1532481</a>
PSR-MIS-C-S-NONO-C-5,0PVC	Sensor	-	-	-	-	●	-	5m	<a href="#">1533047</a>
PSR-MIS-C-S-NONO-M8,4P	Sensor	-	-	-	-	●	●	-	<a href="#">1533232</a>
PSR-MIS-C-S-NONC-C-3,0PVC	Sensor	-	-	-	-	●	-	3m	<a href="#">1533265</a>
PSR-MIS-C-S-NONC-C-5,0PVC	Sensor	-	-	-	-	●	-	5m	<a href="#">1533268</a>
PSR-MIS-C-S-NONC-M8,4P	Sensor	-	-	-	-	●	●	-	<a href="#">1533269</a>
PSR-MIS-C-A-N	Actuator	-	-	-	-	●	-	-	<a href="#">1533272</a>
PSR-MIS-C-A-R	Actuator	-	-	-	-	●	-	-	<a href="#">1533276</a>

■ What type of application will the Safe I/O will control? ■ How Many safe inputs / Outputs are needed? ■ Which Safety Protocol will be needed to integrate with the control system?		■ Which safety levels does the device / system need to conform? ■ What is the degree of protection needed for the application? ■ Resulting Phoenix Contact part number											
Type	Application	Input/Outputs				Protocol		Safety Approval				Degree of Protection	Order#
		Safeinputs	Safeoutputs	Clockoutputs	Relayoutputs	SafetyBridge Technology	PROFIsafe	Category/inaccordance withENISO13849-1	PLinaccordancewith ENISO13849-1	SILinaccordancewith EN62061	SILinaccordancewith IEC61508		
		8	-	8	-	Yes	-	4	e	3	3	IP20	<a href="#">2702263</a>
AXL F PSDOR4/2 1F	Relay module	-	-	-	4	-	Yes	4	e	3	3	IP20	<a href="#">2702858</a>
AXL F SSDOR4/2 1F	Relay module	-	-	-	4	Yes	-	4	e	3	3	IP20	<a href="#">2702859</a>
AXL F SSDO8/3 1F 24 V DC	Output module	-	8	-	-	Yes	-	4	e	3	3	IP20	<a href="#">2702264</a>
AXL F PSDI8/4 1F 24 V DC	Input module	8	-	8	-	-	Yes	4	e	3	3	IP20	<a href="#">2701559</a>
AXL F PSDO8/3 1F 24 V DC	Output module	-	8	-	-	-	Yes	4	e	3	3	IP20	<a href="#">2701560</a>
AXL F LPSDO8/3 IF 24 V DC	Logic module with SafetyBridge Technology V3	-	8	-	-	Yes	-	4	e	3	3	IP20	<a href="#">2702171</a>
AXL F PSAI8/2 1F	Input module with 8 safe analog inputs	-	-	-	-	-	Yes	4	e	3	3	IP20	<a href="#">1061424</a>
AXL E IOL SDI8 SDO4 2A M12 L	Input and output module	8	4	8	-	Yes	Yes	4	e	3	3	IP65	<a href="#">1185380</a>


Automation




**SafetyBridge Technology**   
 Designed by Phoenix Contact

# PSRModular - Configurable Safety System



Type	Description	Inputs/Outputs				Safety Approval		Connection Technology	
		Inputs/EDMresetinputs	Outputs	Clockoutputs	Signaloutputs	PLinaccordancewith ENISO13849	SILinaccordancewith EN62061/IEC61508	Screwconnection	Push-inconnection
									
<b>Basic modules</b>									
PSR-M-B1	Base module	8/2	2 (pair)	4	2	e	3	<a href="#">1104981</a>	<a href="#">1104972</a>
PSR-M-B2 (Standard Version)	Base module (with large program memory)	8/4	2 (pair) or 4 (single)	4	4	e	3	<a href="#">1104974</a>	<a href="#">1104975</a>
PSR-M-B2 (Extreme conditions Version)	Base module (with large program memory)	8/4	2 (pair) or 4 (single)	4	4	e	3	-	<a href="#">1337849</a>
PSR-M-B3 (Standard Version)	Base module (with integrated gateway)	8/4	4 (single)	4	4	e	3	<a href="#">1300899</a>	<a href="#">1300897</a>
PSR-M-B3 (Extreme Conditions version)	Base module (with integrated gateway)	8/4	4 (single)	4	4	e	3	-	<a href="#">1337855</a>
PSR-M-B4	Base module (higher built in I/Os)	16/4	4 (single)	4	4	e	3	<a href="#">1738576</a>	<a href="#">1738572</a>
<b>Safe extension modules</b>									
PSR-M-EF1	Failsafe extension module	8/4	2 (pair) or 4 (single)	4	4	e	3	<a href="#">1104890</a>	<a href="#">1104889</a>
PSR-M-EF2	Failsafe extension module	16	-	4	-	e	3	<a href="#">1104888</a>	<a href="#">1104887</a>
PSR-M-EF3	Failsafe extension module for safety shut-off mats	12	-	8	-	e	3	<a href="#">1104885</a>	<a href="#">1104884</a>
PSR-M-EF4	Failsafe extension module	-/4	4 pairs	-	4	e	3	<a href="#">1104856</a>	<a href="#">1104868</a>
PSR-M-EF5	Failsafe extension module	-/4	2 (pair) or 4 (single), each 2 A	-	8	e	3	<a href="#">1104976</a>	<a href="#">1104977</a>
PSR-M-EF6	Failsafe extension module	-/4	4 relays	-	-	e	3	<a href="#">1104982</a>	<a href="#">1104983</a>
PSR-M-EF7	Failsafe extension module	4 analog	-	-	-	e	3	<a href="#">1104985</a>	<a href="#">1104986</a>
PSR-M-EF8	Failsafe extension module	8/2	2 (pair)	4	2	e	3	<a href="#">1105522</a>	<a href="#">1105523</a>
PSR-M-E1	Non-safe extension module	-	-	-	8	-	-	<a href="#">1105132</a>	<a href="#">1105133</a>
PSR-M-E2	Non-safe extension module	-	-	-	16	-	-	<a href="#">1105134</a>	<a href="#">1105136</a>
PSR-M-TBUS1	TBUS extension module	1 connection channel for local bus extension (up to 50 m per segment)				e	3	<a href="#">1105095</a>	<a href="#">1105096</a>
PSR-M-TBUS2	TBUS extension module	2 connection channels for local bus extension (up to 50 m per segment)				e	3	<a href="#">1105097</a>	<a href="#">1105098</a>

# PSRModular - Configurable Safety System

Type	Description	Safety function in accordance with EN 61800-5-2				Sensor type				Encoder interfaces	Safety approval		Connection technology		
		SOS	SLS	SSR	SDI	Proximityswitch	TTL	HTL	Sin/Cos		PLinaccordancewith ENISO13849	SILinaccordancewith EN62061/IEC61508	Screwconnection	Push-inconnection	
															
<b>Safe motion monitoring</b>															
PSR-M-EM1	Motion – PROXIMITY extension module	●	●	●	-	●	-	-	-	-	e	3	<a href="#">1104987</a>	<a href="#">1104988</a>	
PSR-M-EM2	Motion – TTL extension module	●	●	●	●	●	●	-	-	1	e	3	<a href="#">1104989</a>	<a href="#">1104990</a>	
PSR-M-EM3	Motion – HTL extension module	●	●	●	●	●	-	●	-	1	e	3	<a href="#">1105009</a>	<a href="#">1105010</a>	
PSR-M-EM4	Motion – SINCOS extension module	●	●	●	●	●	-	-	●	1	e	3	<a href="#">1105011</a>	<a href="#">1105012</a>	
PSR-M-EM5	Motion – TTL extension module	●	●	●	●	●	●	-	-	2	e	3	<a href="#">1105014</a>	<a href="#">1105015</a>	
PSR-M-EM51	Extension module Motion – TTL Without voltage monitoring	●	●	●	●	●	●	-	-	2	e	3	<a href="#">1300906</a>	<a href="#">1300905</a>	
PSR-M-EM6	Motion – HTL extension module	●	●	●	●	●	-	●	-	2	e	3	<a href="#">1105016</a>	<a href="#">1105017</a>	
PSR-M-EM7	Motion – SINCOS extension module	●	●	●	●	●	-	-	●	2	e	3	<a href="#">1105018</a>	<a href="#">1105093</a>	
<b>Gateways for PSR-M-B1 and PSR-M-B2. Note: PSR-M-B3 has built-in Gateway</b>															
PSR-M-GW-PB	Gateway – PROFIBUS											<a href="#">1105099</a>	<a href="#">1105100</a>		
PSR-M-GW-PN	Gateway – PROFINET											<a href="#">1105101</a>	<a href="#">1105102</a>		
PSR-M-GW-DNET	Gateway – DeviceNet™											<a href="#">1105103</a>	<a href="#">1105473</a>		
PSR-M-GW-CAN	Gateway – CANopen®											<a href="#">1105104</a>	<a href="#">1105105</a>		
PSR-M-GW-ETH	Gateway – EtherNet/IP™											<a href="#">1105106</a>	<a href="#">1105107</a>		
PSR-M-GW-MODTCP	Gateway – Modbus/TCP											<a href="#">1105108</a>	<a href="#">1105127</a>		
PSR-M-GW-CCLINK	Gateway – CC-Link											<a href="#">1105128</a>	<a href="#">1105129</a>		
PSR-M-GW-ECAT	Gateway – EtherCAT®											<a href="#">1105130</a>	<a href="#">1105131</a>		

Connectivity

# 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	<a href="#">1648128</a>	HC-B 6-I-UT-F	<a href="#">1648115</a>	HC-B 6-I-UT-M	<a href="#">1411319</a>	<a href="#">1411318</a>	<a href="#">1412574</a> (M20)	<a href="#">1412566</a> (M25)	<a href="#">1412570</a> (M20)	<a href="#">1412562</a> (M25)
	Push-in	<a href="#">1407727</a>	HC-B 6-I-PT-F	<a href="#">1407728</a>	HC-B 6-I-PT-M	<a href="#">1411319</a>	<a href="#">1411318</a>	<a href="#">1412574</a> (M20)	<a href="#">1412566</a> (M25)	<a href="#">1412570</a> (M20)	<a href="#">1412562</a> (M25)
	Crimp	<a href="#">1648160</a>	HC-B 6-I-CT-F	<a href="#">1648157</a>	HC-B 6-I-CT-M	<a href="#">1411319</a>	<a href="#">1411318</a>	<a href="#">1412574</a> (M20)	<a href="#">1412566</a> (M25)	<a href="#">1412570</a> (M20)	<a href="#">1412562</a> (M25)
10 poles	Screw	<a href="#">1648186</a>	HC-B 10-I-UT-F	<a href="#">1648173</a>	HC-B 10-I-UT-M	<a href="#">1411321</a>	<a href="#">1411320</a>	<a href="#">1412629</a> (M20)	<a href="#">1412605</a> (M32)	<a href="#">1412625</a> (M25)	<a href="#">1412600</a> (M25)
	Push-in	<a href="#">1407729</a>	HC-B 10-I-PT-F	<a href="#">1407730</a>	HC-B 10-I-PT-M	<a href="#">1411321</a>	<a href="#">1411320</a>	<a href="#">1412629</a> (M20)	<a href="#">1412605</a> (M32)	<a href="#">1412625</a> (M25)	<a href="#">1412600</a> (M25)
	Crimp	<a href="#">1605569</a>	HC-B 10-I-CT-F	<a href="#">1605624</a>	HC-B 10-I-CT-M	<a href="#">1411321</a>	<a href="#">1411320</a>	<a href="#">1412629</a> (M20)	<a href="#">1412605</a> (M32)	<a href="#">1412625</a> (M25)	<a href="#">1412600</a> (M25)
16 poles	Screw	<a href="#">1648241</a>	HC-B 16-I-UT-F	<a href="#">1648238</a>	HC-B 16-I-UT-M	<a href="#">1411325</a>	<a href="#">1411324</a>	<a href="#">1412730</a> (M32)	<a href="#">1412689</a> (M32)	<a href="#">1412726</a> (M32)	<a href="#">1412679</a> (M32)
	Push-in	<a href="#">1407731</a>	HC-B 16-I-PT-F	<a href="#">1407732</a>	HC-B 16-I-PT-M	<a href="#">1411325</a>	<a href="#">1411324</a>	<a href="#">1412730</a> (M32)	<a href="#">1412689</a> (M32)	<a href="#">1412726</a> (M32)	<a href="#">1412679</a> (M32)
	Crimp	<a href="#">1648283</a>	HC-B 16-I-CT-F	<a href="#">1648270</a>	HC-B 16-I-CT-M	<a href="#">1411325</a>	<a href="#">1411324</a>	<a href="#">1412730</a> (M32)	<a href="#">1412689</a> (M32)	<a href="#">1412726</a> (M32)	<a href="#">1412679</a> (M32)
24 poles	Screw	<a href="#">1648306</a>	HC-B 24-I-UT-F	<a href="#">1648296</a>	HC-B 24-I-UT-M	<a href="#">1411332</a>	<a href="#">1411331</a>	<a href="#">1412779</a> (M32)	<a href="#">1412754</a> (M32)	<a href="#">1412774</a> (M32)	<a href="#">1412750</a> (M32)
	Push-in	<a href="#">1407735</a>	HC-B 24-I-PT-F	<a href="#">1407736</a>	HC-B24-I-PT-M	<a href="#">1411332</a>	<a href="#">1411331</a>	<a href="#">1412779</a> (M32)	<a href="#">1412754</a> (M32)	<a href="#">1412774</a> (M32)	<a href="#">1412750</a> (M32)
	Crimp	<a href="#">1648348</a>	HC-B 24-I-CT-F	<a href="#">1648335</a>	HC-B 24-I-CT-M	<a href="#">1411332</a>	<a href="#">1411331</a>	<a href="#">1412779</a> (M32)	<a href="#">1412754</a> (M32)	<a href="#">1412774</a> (M32)	<a href="#">1412750</a> (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	
6 poles	Screw	<a href="#">1648128</a>	HC-B 6-I-UT-F	<a href="#">1648115</a>	HC-B 6-I-UT-M	<a href="#">1407622</a>	<a href="#">1407621</a>	<a href="#">1407619</a>		<a href="#">1407620</a>	
	Push-In	<a href="#">1407727</a>	HC-B 6-I-PT-F	<a href="#">1407728</a>	HC-B 6-I-PT-M	<a href="#">1407622</a>	<a href="#">1407621</a>	<a href="#">1407619</a>		<a href="#">1407620</a>	
	Crimp	<a href="#">1648160</a>	HC-B 6-I-CT-F	<a href="#">1648157</a>	HC-B 6-I-CT-M	<a href="#">1407622</a>	<a href="#">1407621</a>	<a href="#">1407619</a>		<a href="#">1407620</a>	
10 poles	Screw	<a href="#">1648186</a>	HC-B 10-I-UT-F	<a href="#">1648173</a>	HC-B 10-I-UT-M	<a href="#">1407633</a>	<a href="#">1407632</a>	<a href="#">1407626</a>		<a href="#">1407627</a>	
	Push-In	<a href="#">1407729</a>	HC-B 10-I-PT-F	<a href="#">1407730</a>	HC-B 10-I-PT-M	<a href="#">1407633</a>	<a href="#">1407632</a>	<a href="#">1407626</a>		<a href="#">1407627</a>	
	Crimp	<a href="#">1605569</a>	HC-B 10-I-CT-F	<a href="#">1605624</a>	HC-B 10-I-CT-M	<a href="#">1407633</a>	<a href="#">1407632</a>	<a href="#">1407626</a>		<a href="#">1407627</a>	
16 poles	Screw	<a href="#">1648241</a>	HC-B 16-I-UT-F	<a href="#">1648238</a>	HC-B 16-I-UT-M	<a href="#">1407647</a>	<a href="#">1407646</a>	<a href="#">1420931</a>		<a href="#">1407642</a>	
	Push-In	<a href="#">1407731</a>	HC-B 16-I-PT-F	<a href="#">1407732</a>	HC-B 16-I-PT-M	<a href="#">1407647</a>	<a href="#">1407646</a>	<a href="#">1420931</a>		<a href="#">1407642</a>	
	Crimp	<a href="#">1648283</a>	HC-B 16-I-CT-F	<a href="#">1648270</a>	HC-B 16-I-CT-M	<a href="#">1407647</a>	<a href="#">1407646</a>	<a href="#">1420931</a>		<a href="#">1407642</a>	
24 poles	Screw	<a href="#">1648306</a>	HC-B 24-I-UT-F	<a href="#">1648296</a>	HC-B 24-I-UT-M	<a href="#">1407662</a>	<a href="#">1407661</a>	<a href="#">1420935</a>		<a href="#">1407657</a>	
	Push-In	<a href="#">1407735</a>	HC-B 24-I-PT-F	<a href="#">1407736</a>	HC-B24-I-PT-M	<a href="#">1407662</a>	<a href="#">1407661</a>	<a href="#">1420935</a>		<a href="#">1407657</a>	
	Crimp	<a href="#">1648348</a>	HC-B 24-I-CT-F	<a href="#">1648335</a>	HC-B 24-I-CT-M	<a href="#">1407662</a>	<a href="#">1407661</a>	<a href="#">1420935</a>		<a href="#">1407657</a>	

## ACCESSORIES - Cable Gland

HEAVYCON STANDARD	
M20	<a href="#">1411163</a>
M25	<a href="#">1411165</a>
M32	<a href="#">1411166</a>
M40	<a href="#">1411167</a>

HEAVYCON EVO	
7-13mm	<a href="#">1407669</a> (M20 equivalent)
9-17mm	<a href="#">1407670</a> (M25 equivalent)
11-21mm	<a href="#">1407671</a> (M32 equivalent)
19-28mm	<a href="#">1407672</a> (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

M8						
	Positions	Connection Tech	Gender	Diameter	Order #	Description
<b>3-position</b> Female  Male 	3-Pos.	Screw	Male Straight	3.5-5 mm	<a href="#">1501252</a>	SACC-M 8MS-3CON-M-SW
			Female Straight		<a href="#">1506888</a>	SACC-M 8FS-3CON-M-SW
		Insulation Displacement	Male Straight	2.5-5 mm	<a href="#">1441008</a>	SACC-M 8MS-3QO-0,25-M
			Female Straight		<a href="#">1441066</a>	SACC-M 8FS-3QO-0,5-M
<b>4-position</b> Female  Male 	4-Pos.	Screw	Male Straight	3.5-5 mm	<a href="#">1681169</a>	SACC-M 8MS-4CON-M
			Female Straight		<a href="#">1506891</a>	SACC-M 8FS-4CON-M-SW
		Insulation Displacement	Male Straight	3.5-5 mm	<a href="#">1441037</a>	SACC-M 8MS-4QO-0,5-M
			Female Straight	4-8 mm	<a href="#">1521601</a>	SACC-FS-4QO-0,75-M SCO
M12						
	Positions	Connection Tech	Head	Diameter	Order #	Description
<b>4-position</b> Female  <b>4-position</b> Male 	4-Pos.	Screw	Male Straight	4-6 mm	<a href="#">1662528</a>	SACC-M12MS-4CON-PG 7-M
			Male Angled		<a href="#">1681101</a>	SACC-M12MR-4CON-PG7-M
			Female Straight		<a href="#">1681127</a>	SACC-M12FS-4CON-PG7-M
			Female Angled		<a href="#">1681143</a>	SACC-M12FR-4CON-PG7-M
		Insulation Displacement	Male Straight	4-8 mm	<a href="#">1641785</a>	SACC-M12MS-4QO-0,75-M
			Female Straight	<a href="#">1641772</a>	SACC-M12FS-4QO-0,75-M	
			Push-In	Male Straight	4-8 mm	<a href="#">1424657</a>
		Male Angled		<a href="#">1424654</a>		SACC-M12MR-4PL M
		Female Straight		<a href="#">1424655</a>		SACC-M12FS-4PL M
		Female Angled	<a href="#">1424656</a>	SACC-M12FR-4PL M		
<b>5-position</b> Female  <b>5-position</b> Male 	5-Pos.	Screw	Male Straight	4-6 mm	<a href="#">1663116</a>	SACC-M12MS-5CON-PG 7-M
			Male Angled	6-8 mm	<a href="#">1681460</a>	SACC-M12MS-5CON-PG 9-M
			Female Straight	4-6 mm	<a href="#">1663129</a>	SACC-M12MR-5CON-PG 7-M
			Female Angled	<a href="#">1662968</a>	SACC-M12FS-5CON-PG 7-M	
		Push-In	Male Straight	4-8 mm	<a href="#">1662984</a>	SACC-M12FR-5CON-PG 7-M
			Female Straight		<a href="#">1424649</a>	SACC-M12MS-5PL M
			Male Angled		<a href="#">1424652</a>	SACC-M12FS-5PL M
			Female Angled		<a href="#">1424651</a>	SACC-M12MR-5PL M
Female Straight	<a href="#">1424653</a>	SACC-M12FR-5PL M				
<b>8-position</b> Female  <b>8-position</b> Male 	8-Pos.	Screw	Female Straight	6-8 mm	<a href="#">1513347</a>	SACC-M12FS-8CON-PG9-M
			Male Straight		<a href="#">1513334</a>	SACC-M12MS-8CON-PG9-M

Connectivity

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


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

# 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

## 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
<a href="#">1197232</a> (5m)	<a href="#">1197611</a> (Screw)	<a href="#">1197575</a> (M12 to M8)	<a href="#">1197314</a> (5m)	<a href="#">1197617</a> (Screw)	N/A
<a href="#">1197236</a> (10m)	<a href="#">1197616</a> (Spring)	<a href="#">1166980</a> (M16 to M8)	<a href="#">1197319</a> (10m)	<a href="#">1197620</a> (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
<a href="#">1517042</a> (5m)	<a href="#">1516881</a>	N/A	<a href="#">1517068</a> (5m)	<a href="#">1516894</a>	N/A	<a href="#">1517165</a> (5m)	<a href="#">1516823</a>	N/A	<a href="#">1517181</a> (5m)	<a href="#">1516836</a>	N/A
<a href="#">1517055</a> (10m)			<a href="#">1517071</a> (10m)			<a href="#">1517178</a> (10m)			<a href="#">1517194</a> (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
<a href="#">1452518</a> (5m)	<a href="#">1452783</a>	N/A	<a href="#">1452547</a> (5m)	<a href="#">1452796</a> (Screw)	<a href="#">1692844</a> (M23 to M12)	<a href="#">1452699</a> (5m)	<a href="#">1452848</a> (Screw)	N/A	<a href="#">1452725</a> (5m)	<a href="#">1452851</a> (Screw)	<a href="#">1692459</a> (M23 to M12)
<a href="#">1452521</a> (10m)			<a href="#">1452550</a> (10m)	<a href="#">1452974</a> (Spring)		<a href="#">1452709</a> (10m)	<a href="#">1453025</a> (Spring)		<a href="#">1452738</a> (10m)	<a href="#">1453038</a> (Spring)	

## Accessories

Master Cable Ring for Sensor/Actuator boxes



Cross Section

<a href="#">1503344</a>	50m	PUR/PVC Black
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Master Cable M23 Plug Connection



19 pos.

<a href="#">1684056</a>	5m	PUR/PVC Black
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## Circular Connectors

Circular Connectors in Metric sizes M5 to M12 have become standard in numerous industries and areas of application. The board product range from Phoenix Contact enables uniform connection solutions for signal, data and power transmission in the device.

- ✔ Data rates up to 10 Gbps
- ✔ Signal up to 17 - Positions
- ✔ Power up to 16 A/690 V
- ✔ Locking System - Locking with a click, Push-Lock, Insulation displacement, Crimp, Screw & Pierce connection
- ✔ Shielded and Angled Female Connector Options Available

Power - Assembled Cables with M12 Connectors						
Coding	S	T	L	L	K	M
No.of Position	3+PE	4	4	4+PE	4+PE	5+PE
Cross-section	1.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	1.5 mm <sup>2</sup>
Cable Length						
<b>Straight Male Connector, Free cable end unshielded</b>						
2m	<a href="#">1408836</a>	<a href="#">1408813</a>	-	-	-	-
3m	-	-	<a href="#">1425066</a>	<a href="#">1414887</a>	<a href="#">1414870</a>	<a href="#">1414953</a>
5m	<a href="#">1408837</a>	<a href="#">1408814</a>	<a href="#">1425067</a>	<a href="#">1414891</a>	<a href="#">1414875</a>	<a href="#">1414957</a>
10m	<a href="#">1408838</a>	<a href="#">1408815</a>	<a href="#">1425028</a>	<a href="#">1414895</a>	<a href="#">1414879</a>	<a href="#">1414961</a>
<b>Straight Female Connector, Free cable end unshielded</b>						
2m	<a href="#">1408844</a>	<a href="#">1408824</a>	-	-	-	-
3m	-	-	<a href="#">1425074</a>	<a href="#">1414790</a>	<a href="#">1414788</a>	<a href="#">1414910</a>
5m	<a href="#">1408845</a>	<a href="#">1408825</a>	<a href="#">1425075</a>	<a href="#">1414806</a>	<a href="#">1414804</a>	<a href="#">1414918</a>
10m	<a href="#">1408846</a>	<a href="#">1408826</a>	<a href="#">1425076</a>	<a href="#">1414823</a>	<a href="#">1414821</a>	<a href="#">1414926</a>

Signal - Assembled cables with M12 Push - Pull Connectors (PUR)						
Cable Length	3 - Pos	4 - Pos	5 - Pos	3 - Pos Shielded	4 - Pos Shielded	5 - Pos Shielded
<b>Straight Male Connector, Free cable end</b>						
1.5m	<a href="#">1384594</a>	<a href="#">1392638</a>	<a href="#">1393925</a>	<a href="#">1476550</a>	<a href="#">1476855</a>	<a href="#">1476903</a>
3m	<a href="#">1385536</a>	<a href="#">1392698</a>	<a href="#">1395703</a>	<a href="#">1476806</a>	<a href="#">1476854</a>	<a href="#">1476902</a>
5m	<a href="#">1385538</a>	<a href="#">1392709</a>	<a href="#">1395709</a>	<a href="#">1476805</a>	<a href="#">1476853</a>	<a href="#">1476901</a>
10m	<a href="#">1385625</a>	<a href="#">1392713</a>	<a href="#">1395710</a>	<a href="#">1476803</a>	<a href="#">1476851</a>	<a href="#">1476900</a>
<b>Angled male connector, free cable end</b>						
1.5m	<a href="#">1385626</a>	<a href="#">1392735</a>	<a href="#">1395742</a>	<a href="#">1476802</a>	<a href="#">1476850</a>	<a href="#">1476899</a>
3m	<a href="#">1385643</a>	<a href="#">1392755</a>	<a href="#">1395750</a>	<a href="#">1476800</a>	<a href="#">1476848</a>	<a href="#">1476898</a>
5m	<a href="#">1385646</a>	<a href="#">1392829</a>	<a href="#">1395803</a>	<a href="#">1476798</a>	<a href="#">1476846</a>	<a href="#">1476897</a>
10m	<a href="#">1385647</a>	<a href="#">1392834</a>	<a href="#">1395805</a>	<a href="#">1476796</a>	<a href="#">1476845</a>	<a href="#">1476895</a>
<b>Straight female connector, free cable end</b>						
1.5m	<a href="#">1385782</a>	<a href="#">1392839</a>	<a href="#">1395814</a>	<a href="#">1476794</a>	<a href="#">1476844</a>	<a href="#">1476893</a>
3m	<a href="#">1385791</a>	<a href="#">1393005</a>	<a href="#">1395817</a>	<a href="#">1476792</a>	<a href="#">1476843</a>	<a href="#">1476892</a>
5m	<a href="#">1385792</a>	<a href="#">1393026</a>	<a href="#">1395822</a>	<a href="#">1476791</a>	<a href="#">1476842</a>	<a href="#">1476890</a>
10m	<a href="#">1385968</a>	<a href="#">1393032</a>	<a href="#">1395827</a>	<a href="#">1476788</a>	<a href="#">1476841</a>	<a href="#">1476889</a>
<b>Angled female connector, free cable end</b>						
1.5m	<a href="#">1386380</a>	<a href="#">1393038</a>	<a href="#">1395830</a>	<a href="#">1476786</a>	<a href="#">1476840</a>	<a href="#">1476888</a>
3m	<a href="#">1386394</a>	<a href="#">1393047</a>	<a href="#">1395831</a>	<a href="#">1476785</a>	<a href="#">1476839</a>	<a href="#">1476886</a>
5m	<a href="#">1386513</a>	<a href="#">1393072</a>	<a href="#">1395834</a>	<a href="#">1476784</a>	<a href="#">1476838</a>	<a href="#">1476885</a>
10m	<a href="#">1386514</a>	<a href="#">1393169</a>	<a href="#">1395835</a>	<a href="#">1476782</a>	<a href="#">1476837</a>	<a href="#">1476884</a>

Data - Assembled Network Cables with M12 Connectors (PUR)							
Cable Length	X-Coded	D-Coded	Push-Pull D-Coded	Y-Coded	D-Coded	B-Coded	A-Coded
	Ethernet CAT6	Ethernet	Ethernet	Ethernet	PROFINET	PROFIBUS	"DeviceNet CANopen"
<b>Straight Male Connector, free cable end</b>							
1m	<a href="#">1407467</a>	<a href="#">1407356</a>	<a href="#">1476008</a>	<a href="#">1407487</a>	<a href="#">1407495</a>	-	-
2m	<a href="#">1407468</a>	<a href="#">1407357</a>	<a href="#">1476012</a>	<a href="#">1407488</a>	<a href="#">1407496</a>	<a href="#">1507243</a>	<a href="#">1507421</a>
5m	<a href="#">1407469</a>	<a href="#">1407358</a>	<a href="#">1476013</a>	<a href="#">1407489</a>	<a href="#">1407497</a>	<a href="#">1507256</a>	<a href="#">1507434</a>
10m	<a href="#">1407470</a>	<a href="#">1407359</a>	<a href="#">1476014</a>	<a href="#">1407490</a>	<a href="#">1407498</a>	<a href="#">1507269</a>	<a href="#">1507447</a>
15m	-	-	-	-	-	<a href="#">1507272</a>	<a href="#">1507450</a>
Variable	<a href="#">1408648</a>	<a href="#">1408713</a>	-	<a href="#">1408642</a>	<a href="#">1408640</a>	<a href="#">1538047</a>	<a href="#">1538102</a>
<b>Straight Female Connector, free cable end</b>							
1m	-	<a href="#">1407380</a>	<a href="#">1476016</a>	-	<a href="#">1407528</a>	-	-
2m	-	<a href="#">1407381</a>	<a href="#">1476018</a>	-	<a href="#">1407529</a>	<a href="#">1507298</a>	<a href="#">1507476</a>
5m	-	<a href="#">1407382</a>	<a href="#">1476019</a>	-	<a href="#">1407530</a>	<a href="#">1507308</a>	<a href="#">1507489</a>
10m	-	<a href="#">1407383</a>	<a href="#">1476020</a>	-	<a href="#">1407531</a>	<a href="#">1507311</a>	<a href="#">1507492</a>
15m	-	-	-	-	-	<a href="#">1507324</a>	<a href="#">1507502</a>
Variable	-	<a href="#">1408679</a>	-	-	<a href="#">1408623</a>	<a href="#">1538063</a>	<a href="#">1538128</a>



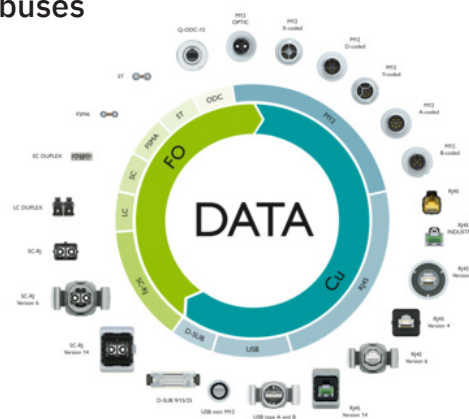
## Data Connectors

The world is becoming increasingly networked. And that means more interfaces on devices. Phoenix Contact offers a comprehensive portfolio of data connectors from RJ45 to USB, HDMI, and D-SUB, up to coaxial and FO connections, as well as for SPE. Expert advice and excellent services for all aspects of device connection supplement the product range – the ideal basis for networking smart devices.

## Copper - Based & Fibre Optic Data Cables for Networks and Fieldbuses

RJ45 Connectors				
Protocol	Ethernet		PROFINET	Ethernet
Connection Technology	IDC Insulation Displacement Connectors			Crimp
Connection Range	AWG 26 ... AWG 24	AWG 26 ... AWG 23	AWG 22	AWG 27 ... AWG 24
CAT5		<a href="#">1656725</a>	<a href="#">1658008</a>	<a href="#">1414382</a>
CAT6	<a href="#">1419001</a>			<a href="#">1414395</a>

RJ45 INDUSTRIAL Connectors								
Connection Technology	IDC Insulation Displacement Connectors							
Protocol	PROFINET				Ethernet			
Connection Range	AWG 23 ... AWG 22				AWG 26 ... AWG 24			
Category	CAT5		CAT6	CAT5		CAT6		
Cable Outlet	Straight	Upward	Downward	Straight	Upward	Downward	Straight	
Part Number	<a href="#">1421126</a>	<a href="#">1421127</a>	<a href="#">1421128</a>	<a href="#">1149847</a>	<a href="#">1421607</a>	<a href="#">1421876</a>	<a href="#">1421877</a>	<a href="#">1149846</a>



SPE Connectors, IP20					
Description	SPE PCB Connector 180	SPE PCB Connector 90	SPE PCB Connector 90 LED	SPE Network Cable	SPE-IDC Connector
Type of Contact	Male			Female	Female
Connection Method	THR and Wave Soldering			-	IDC Insulation Displacement Connection
LED	-	-	Yes	-	-
Part Number	<a href="#">1163798</a>	<a href="#">1163797</a>	<a href="#">1215778</a>	<a href="#">1183808</a> (2m)	<a href="#">1343953</a>

RJ45 Standard Patch Cables - Webcode #2676			RJ45 Standard Patch Cables - Webcode #2676		
Length	CAT5	CAT6	Length	CAT5 upto 100 Mbps	CAT6 up to Gbps
0.3m	<a href="#">1227558</a>	<a href="#">1227572</a>		93B	94F
0.5m	<a href="#">1227559</a>	<a href="#">1227573</a>	0.5m	<a href="#">1112877</a>	<a href="#">1113823</a>
1m	<a href="#">1227560</a>	<a href="#">1227575</a>	1.0m	<a href="#">1112876</a>	<a href="#">1112909</a>
1.5m	<a href="#">1227561</a>	<a href="#">1227578</a>	2.0m	<a href="#">1112875</a>	<a href="#">1112908</a>
2m	<a href="#">1227562</a>	<a href="#">1227580</a>	3.0m	<a href="#">1112874</a>	<a href="#">1112907</a>
3m	<a href="#">1227563</a>	<a href="#">1227581</a>	5.0m	<a href="#">1112873</a>	<a href="#">1112906</a>
5m	<a href="#">1227564</a>	<a href="#">1227583</a>	CAT5 (100Mbps) 93B, 93C, 93K, 93M, 93R CAT5 (1 Gbps) 94B, 94C, 94D CAT6 (10 Gbps) 94F		CAT5 (100Mbps) - PROFINET/EtherCAT/Sercos CAT6 (10 Gbps) - Ethernet
7.5m	<a href="#">1227565</a>	<a href="#">1227585</a>			
10m	<a href="#">1227566</a>	<a href="#">1227588</a>			
12.5m	<a href="#">1227567</a>	<a href="#">1227590</a>			
15m	<a href="#">1227570</a>	<a href="#">1227591</a>			
15m	<a href="#">1227570</a>	<a href="#">1227591</a>			
20m	<a href="#">1227571</a>	<a href="#">1227593</a>			

## Love our Phoenix Contact Switches?

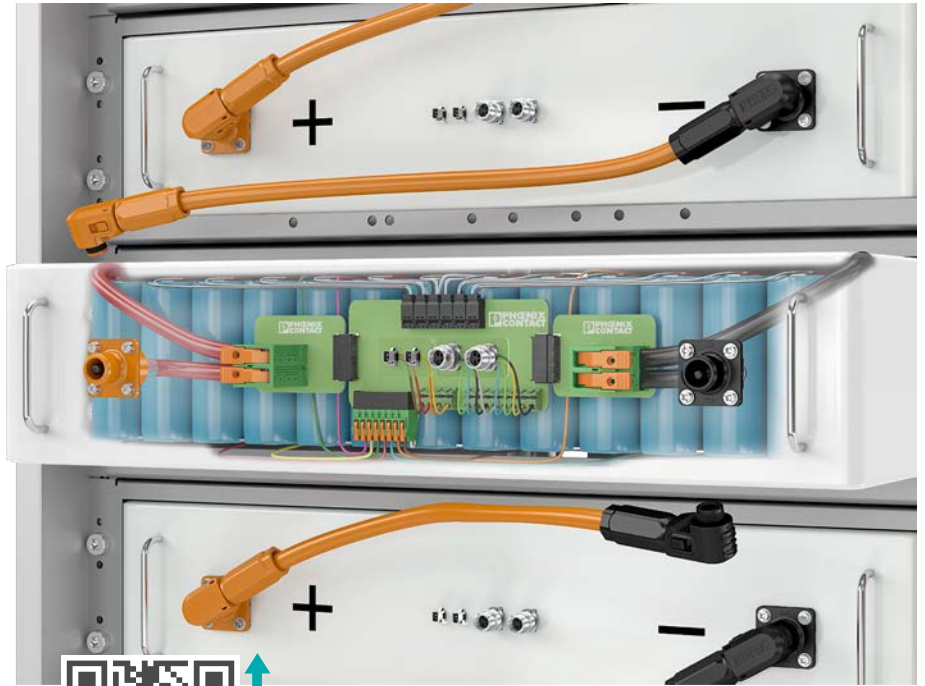
Pair them with our secure Patch cables to complete the solution.



## Connection technology for energy storage systems

### Our connection technology portfolio for energy storage

Energy storage systems are made up of different components that all contribute to the function of the overall system. Benefit from our portfolio of PCB connections, connectors, and electronics housings that demonstrate our strong innovation power. Get solutions for signal, data, and power transmission from a single source and integrate them into your applications.



**i** View:  
[Web Code: #2346](#)



**i** View:  
[Web Code: #2711](#)

### Components for rack BMS insertion

The rack BMS slide-in module connects to the overall system via a blind-mating feature on the rear, thus not endangering the installer in any way. On the front, the individual battery modules of the rack are connected via efficient and user-friendly plug-in connections. Innovative connection technologies for fast and reliable manufacturing processes are used for the internal wiring of power, signal, and data components.

# GameChangers



## GameChangers

Full speed right through to the stop, Excellent performance in a particularly confined space, Sovereignty in every contact, Powerplay even in harsh conditions, Elegance in every situation, and Performance at the highest level.



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**i** Learn more: [USB Connectors](#)



**i** Learn more: [PRC installation connectors](#)

Connectivity



**i** Learn more: [M17-M40 PRO circular connectors](#)



**i** Learn more: [Single Pair Ethernet](#)



**i** Learn more: [M12 push-pull connectors](#)

# NEW PRODUCTS

## New Products 2026 Developed with passion

Our engineers are constantly developing new products. See more than 100 small and large innovations in connection technology, device connection technology, and automation technology.



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## Empowering the All Electric Society



ELECTRIFICATION



NETWORKING



AUTOMATION

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Find Phoenix Contact alternatives for products from other manufacturers.

This search tool helps you find Phoenix Contact products that are equivalent to or a substitute for products from other manufacturers. Enter the manufacturer's item number or product name to find a corresponding product.



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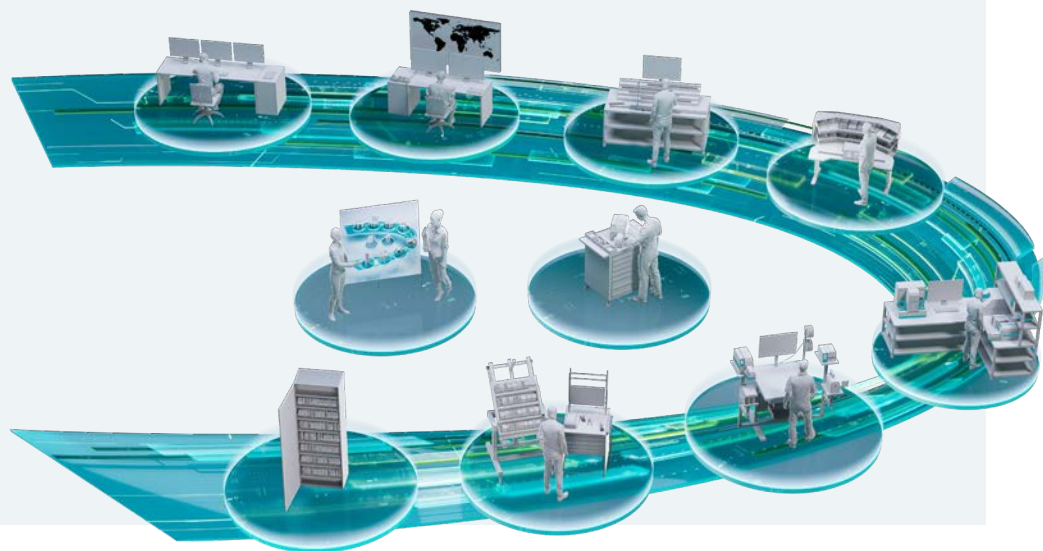
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## Phoenix Contact Trainings

As industrial environments evolve, the demand for smarter, more resilient systems grow. Products in connectivity, power reliability, switching & conversion, and shopfloor productivity are essential for competitive manufacturing.

Companies embrace integrated solutions that ensure seamless communication, stable power, efficient energy management, and optimised workflows. This requires openness to new technologies, proven standards, and scalable designs that adapt quickly to changing needs. Phoenix Contact delivers innovative solutions, enabling businesses to achieve maximum efficiency, reliability, and flexibility in their operations.

We can offer specialized training programs for employees of companies in Romania, tailored to their specific technical and operational needs. Contact us for more information.



Contact us



### 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.



### Cabinet Efficiency

Efficiency in cabinet building begins with Phoenix Contact's modular and scalable solutions. From design to installation, our innovative products simplify processes, shorten assembly times, and ensure consistent quality across every project.



### PLCnext Technology

PLCnext Control are the hardware of PLCnext Technology and offer an open Linux environment with access to more data via IoT systems and more flexibility. In addition to standards such as IEC 61131, the combination of programming languages such as C/C++, C#, Python and NodeRed are also possible.



### Automation

From single components to fully integrated systems, Phoenix Contact delivers reliable solutions powered by cutting-edge technologies in industrial networking, automation, safety, switching, signal conversion, and motor control, driving innovation and high performance across every application.



### Connectivity

Discover our wide range of new products for the transmission of signals, data, and power. Reliable and cost effective solutions including Circular Connectors, Data ports, Connectors for Energy Storage and many more.

# Ongoing communication with customers and partners worldwide

Phoenix Contact is a global, market leader based in Germany.

Our group is known for its future-oriented components, systems, and solutions in the fields of electrical engineering, electronics, and automation.

With a global network reaching across more than 100 countries and 21,000 employees, we can stay in close contact with our customers, something we believe is essential to success.

The wide variety of our innovative products makes it easy for our customers to find future-oriented solutions for multiple applications and industries.

We especially focus on the fields of energy, infrastructure, process, and factory automation.



You will find our complete product range at:

[www.phoenixcontact.ro](http://www.phoenixcontact.ro)

PHOENIX CONTACT SRL

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