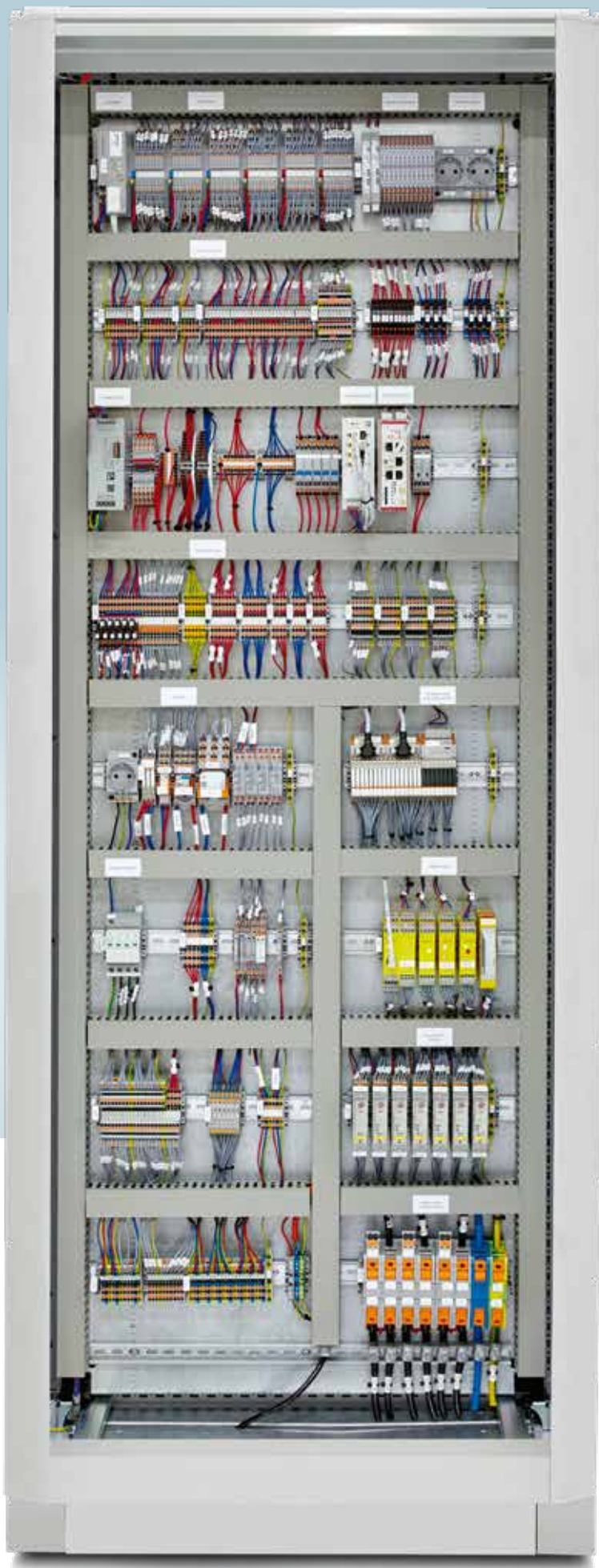




**COMPLETE
CABINET
CONFIDENCE**

BUILD WITH CONFIDENCE

Quick Reference Guide





Build with complete confidence

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

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

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

Value Added Services

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

Complete DIN-Rail Assembly Design

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

Complete Product Portfolio

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

Five Functional Areas



Power Reliability

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



Connectivity & Switching

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



Automation, Networks and I/O

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



Safety

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



Shopfloor Productivity

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

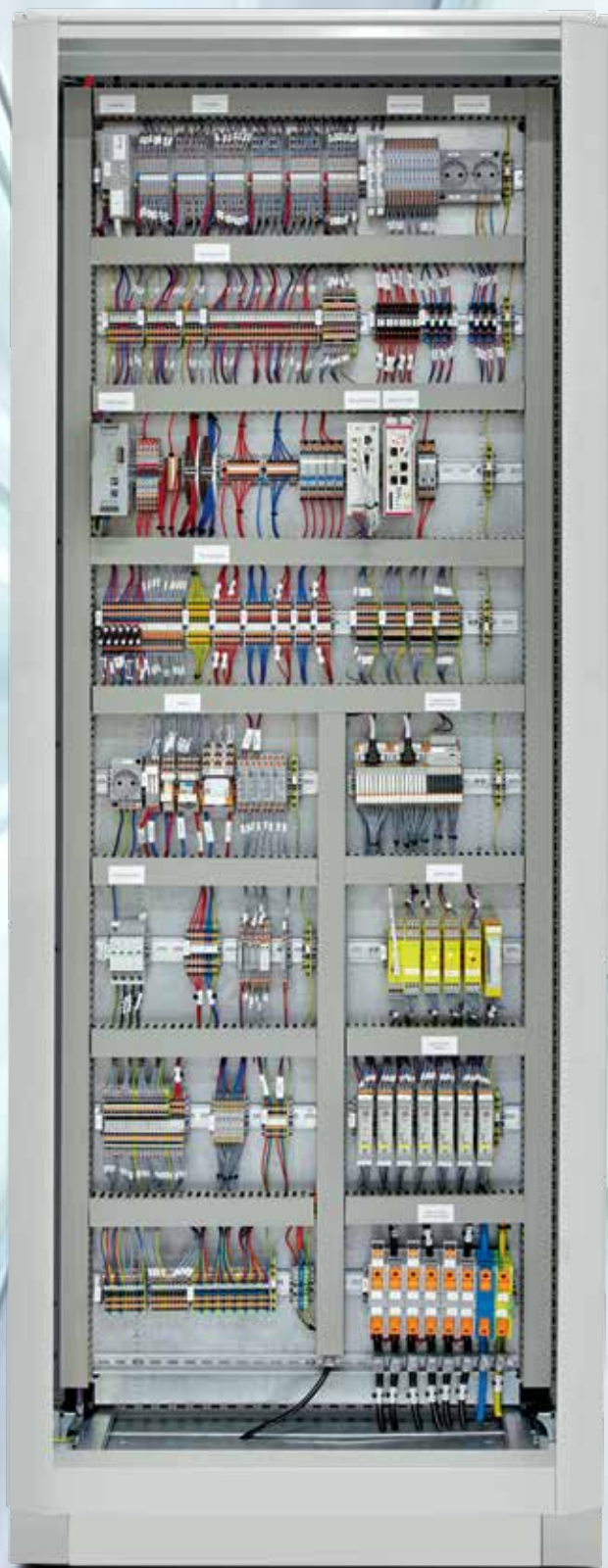


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Automation, networks and I/O

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Power Supplies

Technical Support 1300 786 411 • customerservice@phoenixcontact.com.au

Do you need a single-phase or a three-phase power supply?					
What is the output DC voltage?					
What is your output current (Amps)?					
Does the power supply need Class I, Division 2 rating?					
Have you considered surge protection?					
Resulting Phoenix Contact part number					
Phase	Output voltage	Output current	Type description	Order #	
1-phase	5 V DC	2A	STEP-PS/ 1AC/ 5DC/2	2320513	
		6.5A	STEP-PS/ 1AC/ 5DC/6.5	2868541	
		5A	QUINT-4-PS/1AC/5DC/5/PT	2904595	
	12 V DC	1A	STEP-PS/ 1AC/12DC/1	2868538	
		1.5A	STEP-PS/ 1AC/12DC/1.5	2868567	
		1.5A	STEP-PS/ 1AC/12DC/1.5/FL	2868554	
		2.5A	QUINT4-PS/1AC/12DC/2.5/PT	2904605	
		3A	STEP-PS/ 1AC/12DC/3	2868570	
		5A	STEP-PS/ 1AC/12DC/5	2868583	
		5A	TRIO-PS-2 G/1AC/12DC/5/C2LPS	2903157	
		7.5A	QUINT-4-PS/1AC/12DC/7.5D/PT	2904607	
		10A	TRIO-PS-2G/1AC/12DC/10	2903158	
		15A	QUINT-4-PS/1AC/12DC/15	2904608	
		20A	QUINT-PS/1AC/12DC/20	2866721	
	15 V DC	4 A	STEP-PS/1AC/15DC/4	2868619	
	24 V DC	0.63A	STEP3-PS/1AC/24DC/0.63/PT	1088495	
		1.3A	STEP3-PS/1AC/24DC/1.3/PT	1088494	
		1.3A	QUINT4-PS/1AC/24 DC/1.3/PT	2909575	
		1.3A	QUINT4-PS/1AC/24 DC/1.3/SC	2904597	
		2.5A	STEP3-PS/1AC/24DC/2.5/PT	1088491	
		2.5A	TRIO-PS/1AC/24 DC/2.5	2866268	
		2.5A	QUINT4-PS/1AC/24DC/2.5/PT	2909576	
		2.5A	QUINT4-PS/1AC/24DC/2.5/SC	2904598	
		3A	TRIO-PS-2G/1AC/24DC/3/C2LPS	2903147	
		3.5A	QUINT-PS/1AC/24DC/3.5	2866747	
		3.8A	QUINT4-PS/1AC/24DC/3.8/PT	2909577	
		3.8A	QUINT4-PS/1 AC/24 DC/3.8/SC	2904599	
		4A	STEP3-PS/1AC/24DC/4/PT	1140066	
		5A	STEP3-PS/1AC/24DC/5/PT	1088478	
		5A	ESSENTIAL-PS/1AC/24DC/120W/EE	2910586	
		5A	QUINT4-PS/1AC/24DC/5	2904600	
		5A	TRIO-PS-2G/1AC/24DC/5	2903148	
		10A	ESSENTIAL-PS/1AC/24DC/240W/EE	2910587	
		10A	QUINT4-PS/1AC/24DC/10	2904601	
		10A	TRIO-PS-2G/1AC/24DC/10	2903149	
		20A	ESSENTIAL-PS/1AC/24DC/480W/EE	2910588	
		20A	QUINT4-PS/1AC/24DC/20	2904602	
		20A	TRIO-PS-2G/1AC/24DC/20	2903151	
		40A	QUINT4-PS/1AC/24DC/40	2904603	
	48 V DC	5 A	QUINT-PS/1AC/48DC/5	2866679	
		5 A	TRIO-PS-2G/1AC/48DC/5	2903159	
		10 A	QUINT4-PS/1AC/48DC/10	2904611	
		10 A	TRIO-PS-2G/1AC/48DC/10	2903160	
		20 A	QUINT-PS/1AC/48DC/20	2866695	
Phase	Output voltage	Output current	Type description	Order #	
3-phase	24 V DC	5A	QUINT4-PS/3AC/24DC/5	2904620	
		5A	TRIO-PS-2G/3AC/24DC/5	2903153	
		10A	QUINT4-PS/3AC/24 DC/10	2904621	
		10A	TRIO-PS-2G/3AC/24DC/10	2903154	
		20A	QUINT4-PS/3AC/24DC/20	2904622	
		20A	TRIO-PS-2G/3AC/24DC/20	2903155	
		40A	QUINT4-PS/3AC/24DC/40	2904623	
		40A	TRIO-PS-2G/3AC/24DC/40	2903156	
	48 V DC	20A	QUINT-PS/3AC/48DC/20	2320827	
Recommended surge protection/power supply input					
Phase	Voltage	Max surge current (I _{max})	Load current	Type description	Order #
1-phase	230 V AC	10 kA	26A	PLT-SEC-T3-230-FM-PT	2907928
	230 V AC	10 kA	26A	PLT-SEC-T3-230-FM-UT	2907919
	230 V AC	40 kA	NA	VAL-MS 230/1+1	2804429
	230 V AC	40 kA	NA	VAL-MS 230/1+1-FM*	2804432
3-phase	230/400 V AC	3 kA (In)	25A	PLT-SEC-T3-35-230-FM	2905230
	230/400 V AC	40 kA	NA	VAL-MS 230/3+1	2838209
	230/400 V AC	40 kA	NA	VAL-MS 230/3+1-FM*	2838199

* FM - Remote relay alarm output.

QUINT



TRIO



ESSENTIAL



STEP



Uninterruptible Power Supplies (UPS)

DC power

For critical applications, uninterruptible Power Supplies (UPS) can provide a lifeline to keep your system up and running.

	Power supply AC-to-DC, DC-to-DC power supplies		+ UPS module Selected based on output requirements		+ Energy-storage device How long does the system need to remain online once the main power is lost?
--	--	---	--	---	---

DC QUINT Power supply			UPS module
	Select UPS		
	What input/output voltage?		
	What output power/current? (Round up... A 3 A system would use a 5 A UPS)		



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



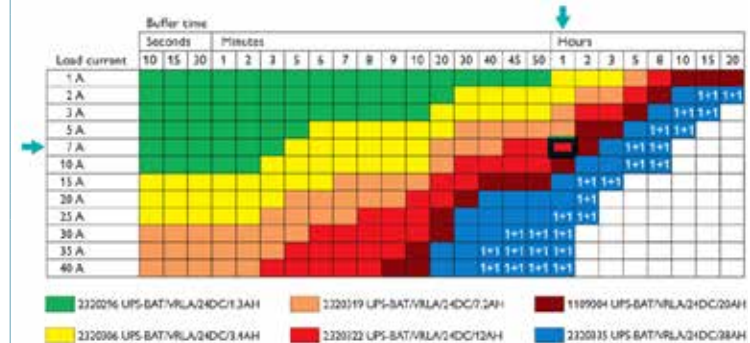
Comms	Input/Output/Amps	Description	Order #
PROFINET	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/5/PN	2906993
PROFINET	24DC/24VDC/10A	QUINT4-UPS/24DC/24DC/10/PN	2907068
PROFINET	24DC/24VDC/20A	QUINT4-UPS/24DC/24DC/20/PN	2907073
PROFINET	24DC/24VDC/40A	QUINT4-UPS/24DC/24DC/40/PN	2907079
ETHERCAT	24DC/24DC/5A	QUINT4-UPS/24DC/24DC/5/EC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

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

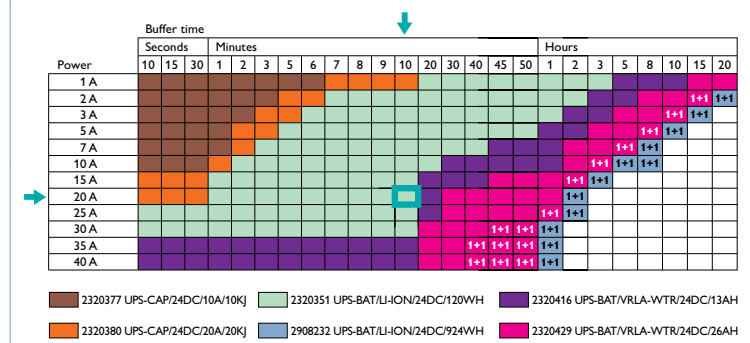
Energy-storage type

VRLA



2320296		2320306		2320319	
UPS-BAT/ VRLA/24DC/ 1.3 AH		UPS-BAT/ VRLA/24DC/ 3.4 AH		UPS-BAT/ VRLA/24DC/ 7.2 AH	
54 x 157 x 113 1.3 Ah		85 x 191 x 110 3.4 Ah		135 x 202 x 110 7.2 Ah	
2320322		2320335		1109004	
UPS-BAT/ VRLA/24DC/ 12 AH		UPS-BAT/ VRLA/24DC/ 38 AH		UPS-BAT/ VRLA/24DC/20AH	
202 x 202 x 110 12 Ah		330 x 221 x 197 38 Ah		152 x 167 x 181 20 Ah	

CAP or LI-ION or VRLA-WTR



2320377		2320351		2320416	
UPS-CAP/ 24DC10A/10KJ		UPS-LI-ION/ 24DC/120WH		UPS-BAT/ VRLA-WTR/ 24DC/13AH	
126 x 130 x 126 10 A/10 kJ		135 x 202 x 110 120 Wh		172 x 177 x 178 13 Ah	
2320380		2908232		2320429	
UPS-CAP/ 24DC/20A/20KJ		UPS-LI-ION/ 24DC/924VWH		UPS-BAT/ VRLA-WTR/ 24DC/26AH	
126 x 130 x 126 20 A/20 kJ		264 x 224 x 197 924 Wh		358 x 174 x 169 26 Ah	

Uninterruptible Power Supplies (UPS)

AC power – 1 kVA double-conversion

	Power supply AC-to-DC, DC-to-DC power supplies		+ UPS module Selected based on output requirements		+ Energy-storage device How long does the system need to remain online once the main power is lost?
--	--	---	--	---	---

For use with AC QUINT power supply

Select UPS:	UPS module		
What input voltage?			
What output power/current? (Round up... A 3 A system would use a 5 A UPS)			
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	

VRLA

Buffer time

Minutes

Hours

Power

2

3

4

5

8

10

15

20

25

30

40

50

1

1.5

2

3

4

6

9

10

100 W

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

200 W

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

300 W

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

400 W

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

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1+1

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1+1

1+1

500 W

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1+1

600 W

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1+1

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1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

700 W

1+1

1+1

1+1

1+1

1+1

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1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

800 W

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

900 W

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

1+1

2320306 UPS-BAT/VRLA/24DC/3.4Ah

2320322 UPS-BAT/VRLA/24DC/12Ah

2320319 UPS-BAT/VRLA/24DC/7.2Ah

2320335 UPS-BAT/VRLA/24DC/38Ah

1+1 ... Two energy-storage types of the same capacity are required, based on ambient temperature of 20°C.

2320306

UPS-BAT/VRLA/24DC/3.4 AH

85 x 191 x 110

3.4 Ah

2320322

UPS-BAT/VRLA/24DC/12 AH

202 x 202 x 110

12 Ah

2320319

UPS-BAT/VRLA/24DC/7.2 AH

135 x 202 x 110

7.2 Ah

2320335

UPS-BAT/VRLA/24DC/38 AH

330 x 221 x 197

38 Ah

Uninterruptible Power Supplies (UPS)

AC power – 500 VA off-line

	Power supply AC-to-DC, DC-to-DC power supplies		+ UPS module Selected based on output requirements		+ Energy-storage device How long does the system need to remain online once the main power is lost?
--	--	---	--	---	---

For use with AC QUINT power supply

Select UPS:

What input voltage?

What output power/current? (Round up... A 3 A system would use a 5 A UPS)

QUINT UPS

QUINT IQ technology

State of Charge - Describes current charging state and remaining runtime

State of Health - Provides information on the energy-storage device life expectancy

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

+

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

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

Energy-storage type

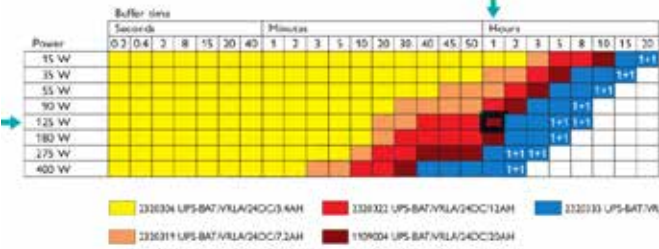
VRLA

UPS module



Energy storage



Energy-storage type		VRLA		CAP or LI-ION or VLRA-WTR	
 1+1 ... Two energy-storage types of the same capacity are required, based on ambient temperature of 20°C.		2320306 UPS-BAT/ VRLA/24DC/ 3.4 AH 85 x 191 x 110 3.4 Ah	2320319 UPS-BAT/ VRLA/24DC/ 7.2 AH 135 x 202 x 110 7.2 Ah	2320322 UPS-BAT/ VRLA/24DC/ 12 AH 202 x 202 x 110 12 Ah	2320335 UPS-BAT/ VRLA/24DC/ 38 AH 330 x 221 x 197 38 Ah
		2320333 UPS-BAT/ VRLA/24DC/38AH	1109004 UPS-BAT/ VRLA/24DC/20AH 152 x 167 x 181 20 Ah		

CAP or LI-ION or VLRA-WTR		CAP		LI-ION		VLRA-WTR	
</							

Surge Protection - Power

FLT-SEC Series



FLT-SEC-H Series



VAL-MS Series



Network Type			AS/NZS 1768 Category				Surge protection device		Order #	100% Stock Guarantee
		Voltage	C	B	A	+ FUSE	Type description	Features		
3-phase	N / E Separated  TN-S / TT	230V / 400V	✓	✓			FLT-SEC-P-T1-3S-264/50-FM	limp = 50kA	2909589	
			✓	✓		✓	FLT-SEC-H-T1-3C-264/25-FM	Inbuilt SPD FUSE	2905871	
							(FLT-SEC-P-T1-N/PE-350/100-FM)	ADD N/E SPD Module	2905472	
			✓	✓			FLT-SEC-P-T1-3S-350/25-FM	I _{max} = 100kA	2905421	
			✓	✓			FLT-SEC-T1+T2-3S-350/25-FM	Special T1 & T2	2905470	
			✓	✓			VAL-ME-3+1-100-275-A	I _{max} = 100kA	1106017	✓
			✓	✓	✓		VAL-MS-3+1-50-275-A	I _{max} = 50kA	1105734	✓
			✓	✓	✓		VAL-SEC-T2-3S-350-FM	I _{max} = 40kA	2905340	
3-phase	N-E Combined (MEN)  TN-C	230V / 400V	✓	✓			FLT-SEC-P-T1-3C-264/50-FM	limp = 50kA	2907390	
			✓	✓		✓	FLT-SEC-H-T1-3C-264/25-FM	Inbuilt SPD FUSE	2905871	
			✓	✓			FLT-SEC-P-T1-3C-350/25-FM	I _{max} = 100kA	2905419	
			✓	✓			FLT-SEC-T1+T2-3C-350/25-FM	Special T1 & T2	2905469	
			✓	✓			VAL-ME-3+1-100-275-A	I _{max} = 100kA	1106017	✓
			✓	✓	✓		VAL-MS-3-50-275-A	I _{max} = 50kA	1105739	✓
			✓	✓	✓		VAL-SEC-T2-3C-350-FM	I _{max} = 40kA	2905339	
					✓		PLT-SEC-T3-3S-230-FM	Screw-In Terminals	2905230	
1-phase	N / E Separated  TN-S / TT	230V	✓	✓			FLT-SEC-P-T1-1S-264/50-FM	limp = 50kA	2907388	
			✓	✓		✓	FLT-SEC-H-T1-1C-264/25-FM	Inbuilt SPD FUSE	2801615	
							(FLT-SEC-P-T1-N/PE-350/100-FM)	ADD N/E SPD Module	2905472	
			✓	✓			FLT-SEC-P-T1-1S-350/25-FM	I _{max} = 100kA	2905415	
			✓	✓			FLT-SEC-T1+T2-1S-350/25-FM	Special T1 & T2	2905466	
			✓	✓			VAL-MS 385/80/1+1-FM	I _{max} = 100kA	2921284	✓
			✓	✓	✓		VAL-MS-1+1-50-275-A	I _{max} = 50kA	1105737	✓
			✓	✓	✓		VAL-SEC-T2-1S-350-FM	I _{max} = 40kA	2905333	
1-phase	N-E Combined (MEN)  TN-C	230V			✓		PLT-SEC-T3-230-FM-PT	Push-In Terminals	2907928	✓
					✓		PLT-SEC-T3-230-FM-UT	Screw-In Terminals	2907919	✓
			✓				FLT-SEC-P-T1-1C-264/50-FM	limp = 50kA	2907387	
			✓	✓		✓	FLT-SEC-H-T1-1C-264/25-FM	Inbuilt SPD FUSE	2801615	
			✓	✓			FLT-SEC-P-T1-1C-350/25-FM	I _{max} = 100kA	2905414	
			✓	✓			FLT-SEC-T1+T2-1C-350/25-FM	Special T1 & T2	2905465	
			✓	✓			VAL-MS 385/80/1+1-FM	I _{max} = 100kA	2921284	
			✓	✓	✓		VAL-MS-1-50-275-A	I _{max} = 50kA	1105740	✓
DC	24VDC +/-GND	24V DC			✓		PLT-SEC-T3-24-FM-PT	Push-in 26A	2907925	
					✓		PLT-SEC-T3-24-FM-UT	Screw-in 26A	2907916	
					✓		TTC-6P-T3-24DC-PT-I	Push-in 6A	1027586	
					✓		TTC-6P-T3-24DC-UT-I	Screw-in 6A	1027584	

Surge Protection - Measurement, Control, Regulation (MCR)

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Hint: Try our MCR configurator online - go to www.phoenixcontact.com.au and search #1389

What type of signal do you need: Analog (4/20 mA, 0-10 V) or Digital (binary 12 V, 24 V)?									
Do you require a push-in, screw, RJ45, or D-SUB connection?									
What is the voltage required?									
Will you use direct or indirect signal ground?									
Which design: pluggable or non-pluggable?									
With or without status monitoring?									
Resulting Phoenix Contact part number									
Plugtrab (PT-IQ)									
Signal	Connection	Voltage	Type	Grounding	Design	Monitoring	Type description	Order #	
Analog (Loop)	Screw	5 VDC	2x2	Direct	Pluggable	With	PT-IQ-2X2-5DC-UT	2800807	
		24 VDC	Master	-	Pluggable	With	PT-IQ-PTB-UT	2800768	
			2x2	Direct	Pluggable	With	PT-IQ-2X2-24DC-UT	2800980	
				Indirect	Pluggable	With	PT-IQ-2X2+F-24DC-UT	2801264	
	Push-in	48 VDC	2x2	Indirect	Pluggable	With	PT-IQ-2X2+F-48DC-UT	2800987	
		5 VDC	2x2	Indirect	Pluggable	With	PT-IQ-2X2+F-5DC-PT	2801260	
		24 VDC	Master	-	Pluggable	With	PT-IQ-PTB-PT	2801296	
			2x2	Direct	Pluggable	With	PT-IQ-2X2-24DC-PT	2801263	
Digital (Discrete)	Screw	48 VDC	2x2	Indirect	Pluggable	With	PT-IQ-2X2+F-24DC-PT	2800981	
		5 VDC	4x1	Indirect	Pluggable	With	PT-IQ-2X2-48DC-PT	2801265	
		24 VDC	Master	-	Pluggable	With	PT-IQ-4X1+F-24DC-UT	2800983	
			4x1	Direct	Pluggable	With	PT-IQ-PTB-UT	2800768	
	Push-in	48 VDC	4x1	Direct	Pluggable	With	PT-IQ-4X1-24DC-UT	2800982	
		5 VDC	HF	Indirect	Pluggable	With	PT-IQ-5-HF+F-5DC-UT	2800798	
		24 VDC	Master	-	Pluggable	With	PT-IQ-5-HF+F-5DC-PT	2801292	
			4x1	Direct	Pluggable	With	PT-IQ-PTB-PT	2801296	
TERMITRAB complete (TTC)									
Signal	Connection	Voltage	Width	Grounding	Design	Monitoring	Type Description	Order #	
Analog (Loop)	Screw	12 VDC	6.2mm	Indirect	Pluggable	With	TTC-6P-1X2-F-12DC-UT-I	2908196	
		24 VDC	6.2mm	Indirect	Pluggable	With	TTC-6P-1X2-F-M-24DC-UT-I	2906781	
			6.2mm	Direct	Pluggable	With	TTC-6P-1X2-24DC-UT-I	2906809	
				Direct	Non-pluggable	With	TTC-6-1X2-24DC-UT	2906798	
	Push-in	48 VDC	6.2mm	Direct	Pluggable	With	TTC-6P-1X2-48DC-UT-I	2908194	
		12 VDC	6.2mm	Direct	Pluggable	With	TTC-6P-1X2-12DC-PT-I	2908193	
		24 VDC	6.2mm	Indirect	Pluggable	With	TTC-6P-1X2-F-M-24DC-PT-I	2906790	
			6.2mm	Direct	Pluggable	With	TTC-6P-1X2-24DC-PT-I	2906815	
Digital (Discrete)	Screw			6.2mm	Direct	Non-pluggable	With	TTC-6-1X2-24DC-PT	
		Direct	Non-pluggable		Without	TTC-3-1x2-24DC-PT	2907325		
		48 VDC	6.2mm		Direct	Pluggable	With	TTC-6P-1X2-48DC-PT-I	
		Push-in	12 VDC	6.2mm	Direct	Pluggable	With	TTC-6P-2X1-12DC-UT-I	
	24 VDC		6.2mm	Indirect	Pluggable	With	TTC-6P-2X1-F-M-24DC-UT-I	2906784	
			6.2mm	Direct	Pluggable	With	TTC-6P-2X1-24DC-UT-I	2906810	
				Direct	Non-pluggable	With	TTC-6-2X1-24DC-UT	2906799	
	Digital (Discrete)	Screw	48 VDC	6.2mm	Indirect	Pluggable	With	TTC-6P-2X1-F-48DC-UT-I	
12 VDC			6.2mm	Indirect	Pluggable	With	TTC-6P-2X1-F-12DC-PT-I	2908206	
			6.2mm	Indirect	Pluggable	With	TTC-6P-2X1-F-M-24DC-PT-I	2906794	
				Direct	Pluggable	With	TTC-6P-2X1-24DC-PT-I	2906816	
Push-in		24 VDC	6.2mm	Direct	Non-pluggable	With	TTC-6-2X1-24DC-PT	2906805	
			3mm	Direct	Non-pluggable	Without	TTC-3-2x1-24DC-PT	2907326	
				48 VDC	6.2mm	Direct	Pluggable	With	
		Coaxial surge protection (CN)							
Signal	Connection	Voltage	Grounding	Design	Monitoring	Type Description	Order #	Coaxial (CN)	
Coaxial	Screw-On	<55 Vp Core-ground	Direct	Non-pluggable	Without	CN-LAMBDA/4-0.47-BB	2800021		
		<18 Vp Core-ground	Direct	Non-pluggable	Without	CN-LAMBDA/4-2.25-BB	2801057		
		<11 Vp Core-ground	Direct	Non-pluggable	Without	CN-LAMBDA/4-5.9-BB	2838490		
		280 DC	Direct	Non-pluggable	Without	CN-UB-280DC-3-BB	2801050		
DATA / Communication surge protection (DT)									
Signal	Connection	Voltage	Grounding	Design	Monitoring	Type Description	Order #	Data (DT)	
CAT6+ 10Gbps+	RJ45	<3.3 VDC/ +/-60 VDC (POE)	Direct	Non-pluggable	Without	DT-LAN-CAT.6+	2881007		
CAT 5&6 1 Gbps	RJ45	<5 VDC/ +/-57 VDC (POE)	Direct	Non-pluggable	Without	D-LAN-CAT.5-HC	2800763		
VDSL & analogue 50 Mbps	RJ45/12/11 & screw term	185 VDC/130 VAC	Direct	Non-pluggable	Without	DT-TELE-RJ45	2882925		
SHDSL	RJ45/12/11 & screw term	185 VDC/130 VAC	Direct	Non-pluggable	Without	DT-TELE-SHDSL	2801593		
RS432	D-SUB (9 pin)	12 VDC	Direct	Non-pluggable	Without	DT-UF8-485/BS	2920612		
V2.4 RS232	D-SUB (9 pin)	12 VDC/10 VAC	Direct	Non-pluggable	Without	DT-UF8-V24/S-9-SB	2803069		
RS485 2 wire	Push-in	12 VDC/10 VAC	Direct	Pluggable	With	TTC-6P-3-HF-12DC-PT-I	1065313		
RS485 2 wire	Screw	12 VDC/10 VAC	Direct	Non-pluggable	With	TTC-6-3-HF-M-12DC-UT-I	2906721		

Circuit Breakers - Industrial & Device

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Do you require 7.5kA or 10kA SSC Rating?
How many poles are required?
What trip-curve characteristic is required?
What current rating is required?
Resulting Phoenix Contact part number

TMC 7 Series: Thermal-Magnetic Industrial Miniature Circuit Breakers (MCB's)

SSC	# of poles	Trip curve	Current rating	Type description	Order #	Local Stock Availability
7.5kA	1	B	10A	TMC 71B 10A	1019916	
			20A	TMC 71B 20A	1019921	
			32A	TMC 71B 32A	1019924	
		C	1A	TMC 71C 01A	1019972	
			6A	TMC 71C 06A	1019977	✓
			10A	TMC 71C 10A	1019980	✓
			16A	TMC 71C 16A	1019984	
			20A	TMC 71C 20A	1019985	✓
			32A	TMC 71C 32A	1019988	
			40A	TMC 71C 40A	1019989	
			50A	TMC 71C 50A	1019990	
			63A	TMC 71C 63A	1019992	
		D	10A	TMC 71D 10A	1020045	
			20A	TMC 71D 20A	1020052	
			32A	TMC 71D 32A	1020055	
			50A	TMC 71D 50A	1020057	
	2	C	6A	TMC 72C 06A	1019999	
			10A	TMC 72C 10A	1020002	
	3	C	10A	TMC 73C 10A	1020023	✓
			20A	TMC 73C 20A	1020028	✓
			32A	TMC 73C 32A	1020031	
			50A	TMC 73C 50A	1020033	
		D	63A	TMC 73C 63A	1020036	
			20A	TMC 73D 20A	1020097	
			32A	TMC 73D 32A	1020100	
10kA	1,2,3	B,C,D	1-63A	TMC 8XX XXA	Contact sales	

TMC-7 1 Pole



TMC-7 2 Pole



TMC-7 3 Pole



TMC-8 2 Pole



Electronic Circuit Breakers Module (CBM)

Channels	Amp	Function	Description	Order #
4	0.5-10A	Full feature/function model	CBM E4 24DC/0.5-10A NO-R	2905743
8	0.5-10A	Full feature/function model	CBM E8 24DC/0.5-10A NO-R	2905744

Electronic Circuit Breakers Module Compact (CBMC)

Channels	Amp	Function	Description	Order #
4	1-4A	Remote reset version	CBMC E4 24DC/1-4A S-R*	1065727
4	1-10A	Remote reset version	CBMC E4 24DC/1-10A S-R	1065729
4	1-4A	Status output version	CBMC E4 24DC/1-4A NO*	2906031
4	1-10A	Status output version	CBMC E4 24DC/1-10A NO	2906032
4	1-4A	I/O link version	CBMC E4 24DC/1-4A+ IOL*	2910410
4	1-10A	I/O link version	CBMC E4 24DC/1-10A IOL	2910411
4	1-8A	Galvanically isolated version	CBMC EG4 24DC/1-8A NO	1065730

*NEC CLASS 2 rating via 4A fail-safe fuse.

CBM



CBMC



Single Channel Electronic Circuit Breakers (PTCB)

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

PTCB



Modular Terminal Blocks

CLIPLINE complete: all connection methods – one system

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

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



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

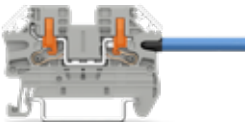
Push-in (PT)									
mm²	I_max	Connections	Description	Order #	Cover	Bridge (2-position)	Screwdriver	Marking	
								Side	Top
1.5	15	2	PT 1.5/S	3208100	3208142	3213014	1204504	0829486 UCT-TMF 3,5	0829484 UCT-TM 3,5
	-		PT 1.5/S PE	3208139					
	15	3	PT 1.5/S-TWIN	3208155	3208184				
	15	4	PT 1.5/S-QUATTRO	3208197	3208375				
2.5	20	2	PT 2.5	3209510	3030417	3030161	1204517	0828744 UCT-TMF 5	0828734 UCT-TM 5
	-		PT 2.5-PE	3209536					
	20	3	PT 2.5-TWIN	3209549	3030488				
	20	4	PT 2.5-QUATTRO	3209578	3030514				
	20		PTTB 2.5	3210567	3211634				
	-		PTTB 2.5-PE	3210596					
4	30	2	PT 4	3211757	3030420	3030336	1204517	0828746 UCT-TMF 6	0828736 UCT-TM 6
	-		PT 4-PE	3211766					
	6.3		PT 4-HESI (5X20 FUSE)	3211861					
	6.3		PT 4-HESILED 24 (5X20 FUSE)	3211903					
	30	3	PT 4-TWIN	3211771	3208977				
	30	4	PT 4-QUATTRO	3211797	3208979				
	28		PTTB 4	3211786	3030462				
	-		PTTB 4-PE	3211854					



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



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- 50 percent lower insertion force
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Push-In Vertical (PTV)												
mm²	I_Nom	Connections	Description	Order #	End Cover	Bridge (2-position)	Marking					
							Thermomark Card	Bluemark				
2.5	24A	2	PTV 2,5	1078960	1088746	3030161	0828734 UCT-TM 5	0818108 UC-TM 5	 • Easy and tool-free wiring of conductors with ferrules or solid conductors • Compact design and front connection enable wiring in a confined space			
	-		PTV 2,5-BU	1078962								
	-		PTV 2,5-PE	1078963								
	20A		PTVC 2,5-MT	1079059	1079914	N/A						
	-		PTVC 2,5-TG	1079061								
	24A	3	PTV 2,5-TWIN	1078966	1088747	3030161						
	-		PTV 2,5-TWIN-BU	1078971								
	-		PTV 2,5-TWIN-PE	1078991								
	24A	4	PTV 2,5-QUATTRO	1078999	1088748							
	-		PTV 2,5-QUATTRO-BU	1079006								
	-		PTV 2,5-QUATTRO-PE	1079012								
	20A		PTV 2,5-QUATTRO-TG	1079072						-		
	-		PTV 2,5-QUATTRO-MT	1079070						-		
4	32A	2	PTV 4	1088728	1088746		3030336	0828736 UCT-TM 6	0818085 UC-TM 6			
	-		PTV 4-BU	1088729								
	-		PTV 4-PE	1088730								
	20A		PTV 4-MT	1088739	-							
	-		PTV 4-TG	1088741	-							
	-		PTV 4-HESI (5x20)	1088742	1079918							
	6.3A	PTV 4-HESILED 24 (5X20)	1088743									
	-	PTV 4-HESILA 250 (5x20)	1088745	-								
	32A	3	PTV 4-TWIN	1088731	1088747							
	-		PTV 4-TWIN-BU	1088732								
	-		PTV 4-TWIN-PE	1088733								
	32A	4	PTV 4-QUATTRO	1088734	1088748							
	-		PTV 4-QUATTRO-BU	1088735								
	-		PTV 4-QUATTRO-PE	1088736								

Double Level Terminal Block									
2.5	22A	4	PTTBV 2,5	1079073	1083611	3030161	0828734 UCT-TM 5	0818108 UC-TM 5	
	20A		PTTBV 2,5/U-OG/O-GN	1088773					
	22A		PTTBV 2,5 BU	1079074					
	-		PTTBV 2,5-PE	1079076					
4	28A	4	PTTBV 4	1088737	3030336	0828734 UCT-TM 6	0818108 UC-TM 6		
	-		PTTBV 4 BU	1088738					
			PTTBV 4-PE	1088774					

Modular Terminal Blocks

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■ What connection style best fits your application?					■ Will you be bridging terminals?								
■ What wire size are you using? What is your current (Amps) requirement?					■ Resulting Phoenix Contact part number								
■ How many connection points?					■ What accessories are needed?								
■ How many end covers are needed?													
PT Power High-Current													
mm²	I_Nom	Connections	Description	Order #	End Cover	Bridge (2-position)	Marking		 • More easily identifiable connection and conductor marking thanks to lateral conductor routing • Time-saving conductor connection with tool-free Push-in direct connection technology				
35	125A	2	PTPOWER 35	3212064	N/A	3005963	0829146 UCT-TM 16	0819217 UC-TM 16					
	-		PTPOWER 35 BU	3212065									
	125A	6	PTPOWER 35-PE	3212066									
		8	PTPOWER 35-3L	3212068									
50	150A	2	PTPOWER 50	3260050		3260067	0829146 UCT-TM 16	0819217 UC-TM 16					
	-		PTPOWER 50 BU	3260051									
	150A	6	PTPOWER 50-3L	3260052									
		8	PTPOWER 50-3L/N	3260053									
95	232A	2	PTPOWER 95	3260100		3260157	0829146 UCT-TM 16	0819217 UC-TM 16					
	-		PTPOWER 95 BU	3260103									
	232A	6	PTPOWER 95-PE	3260106									
		8	PTPOWER 95-3L	3260109									
185	309A	2	PTPOWER 95-3L/N	3260112		3215057	0829146 UCT-TM 16	0819217 UC-TM 16					
	-		PTPOWER 185	1054722									
	309A	6	PTPOWER 185 BU	1054723									
		8	PTPOWER 185-3L	1054728									
Screw Clamp (UT)													
2.5	20	2	UT 2.5	3044076	3047028	3030161	1212587	0828734	 • Universal multi-wire connection with highest pullout force • Save money with uniform bridging, marking, and accessories as part of the Clipline Complete system • Maintenance-free conductor connection with the Reakdyn® principle – there is no need to tighten the terminal block screws				
	-		UT 2.5-PE	3044092									
	20	3	UT 2.5-TWIN	3044513	3047141								
	20		UT 2.5-QUATTRO	3044542	3047170								
	20	4	UTTB 2.5	3044636	3047293								
	-		UTTB 2.5-PE	3044665	3047293								
	20	6	UT 2.5-3L	3214259	3214314								
	-		UT 2.5-3PE	3214275									
4	30	2	UT 4	3044102	3047028	3030336	1212587	0828736					
	-		UT 4-PE	3044128									
	6.3	3	UT 4-HESI (5X20 FUSE)	3046032	-								
	6.3		UT 4-HESILED 24 (5X20 FUSE)	3046090	-								
	30	4	UT 4-TWIN	3044364	3047141								
	30		UT 4-QUATTRO	3044571	3047170								
	30	4	UTTB 4	3044814	3047293								
	-		UTTB 4-PE	3044759									
6	50	2	UT 6	3044131	3047028	3030284	1205066	0828740					
	-		UT6-PE	3044157									
Bolt Connection (RT)													
2.5	24	2	RT-3	3049013	3049097	3030336	1205053	0828740	See Marking Guide	 • Captive hardware with a hinged cover delivers a safe termination • Save money with uniform bridging, marking, and accessories			
6	41	2	RT-5	3049026	-	3030284	1205079	0829144					
35	125	2	RT-8	3049042	3049194	3005947	1205066	0829146					

CLIPLINE complete: all connection methods – one system

Disconnect zone:

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



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



Plug-in zone:

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





Distribution Blocks

Push-in

Ready-to-use blocks for fast assembly without manual bridging, offering time savings of up to 80%

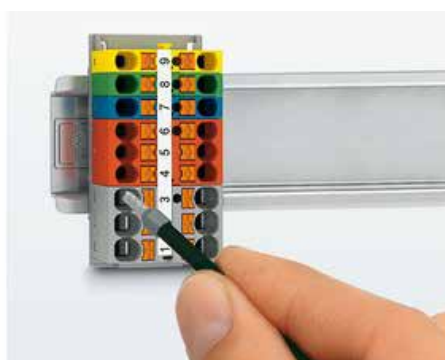
What connection style best fits your application?	What colour is needed?
What wire size are you using? What is your current (Amps) requirement?	Resulting Phoenix Contact part number
How many connection points?	

Push-in (PTFIX 4/18)					
mm²	I_max	Connections	Colour	Description	Order #
4	41	19	Grey	PTFIX 4/18X1,5-NS35 GY	1047454
			Blue	PTFIX 4/18X1,5-NS35 BU	1047455
			Red	PTFIX 4/18X1,5-NS35 RD	1047456
			Brown	PTFIX 4/18X1,5-NS35 BN	1047457
			Green	PTFIX 4/18X1,5-NS35 GN	1047458
			Yellow	PTFIX 4/18X1,5-NS35 YE	1047459
			Black	PTFIX 4/18X1,5-NS35 BK	1047460
			White	PTFIX 4/18X1,5-NS35 WH	1047461
			Violet	PTFIX 4/18X1,5-NS35 VT	1047462
			Orange	PTFIX 4/18X1,5-NS35 OG	1047463
			Pink	PTFIX 4/18X1,5-NS35 PK	1047464
			Black/Yellow	PTFIX 4/18X1,5-NS35-FE	1047465
Push-in (PTFIX 6/18)					
6	57	19	Grey	PTFIX 6/18X2,5-NS35 GY	3273110
			Blue	PTFIX 6/18X2,5-NS35 BU	3273112
			Red	PTFIX 6/18X2,5-NS35 RD	3273114
			Brown	PTFIX 6/18X2,5-NS35 BN	3273120
			Green	PTFIX 6/18X2,5-NS35 GN	3273118
			Yellow	PTFIX 6/18X2,5-NS35 YE	3273116
			Black	PTFIX 6/18X2,5-NS35 BK	3273124
			White	PTFIX 6/18X2,5-NS35 WH	3273122
			Violet	PTFIX 6/18X2,5-NS35 VT	3273126
			Orange	PTFIX 6/18X2,5-NS35 OG	3273128
			Pink	PTFIX 6/18X2,5-NS35 PK	3273127
			Black/Yellow	PTFIX 6/18X2,5-NS35-FE	3273130
Push-in (PTFIX 10/18)					
10	63	19	Grey	PTFIX 10/18X4-NS35 GY	3273636
			Blue	PTFIX 10/18X4-NS35 BU	3273638
			Red	PTFIX 10/18X4-NS35 RD	3273640
			Brown	PTFIX 10/18X4-NS35 BN	3273646
			Green	PTFIX 10/18X4-NS35 GN	3273644
			Yellow	PTFIX 10/18X4-NS35 YE	3273642
			Black	PTFIX 10/18X4-NS35 BK	3273650
			White	PTFIX 10/18X4-NS35 WH	3273648
			Violet	PTFIX 10/18X4-NS35 VT	3273652
			Orange	PTFIX 10/18X4-NS35 OG	3273654
			Pink	PTFIX 10/18X4-NS35 PK	3273653
			Black/Yellow	PTFIX 10/18X4-NS35-FE	3273656

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



Eleven colour options available.



Time saving push-in technology.



Easy to bridge.

Interposing Relays

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■ 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	2966906	PLC relay assembly with electromechanical relay
			Push-in	PLC-RPT-12 DC/21	2900316	
		DPDT - 14 mm	Screw	PLC-RSC-12 DC/21-21	2967235	
			Push-in	PLC-RPT-12 DC/21-21	2900329	
24 V DC	50 mA	SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21AU	2966265	
			Push-in	PLC-RPT-24 DC/21AU	2900306	
	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21	2966171	
			Push-in	PLC-RPT-24 DC/21	2900299	
		DPDT - 14 mm	Screw	PLC-RSC-24 DC/21-21	2967060	
			Push-in	PLC-RPT-24 DC/21-21	2900330	
		SPDT 6.2 mm	Screw	PLC-RSC- 24DC/ 1/ACT	2966210	
		SPDT 6.2 mm	Screw	PLC-RSC- 24DC/ 1AU/SEN	2966317	
	10 A	SPDT - 14 mm	Screw	PLC-RSC-24 DC/21HC	2967620	
			Push-in	PLC-RPT-24 DC/21HC	2900291	
24 V AC or DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-24UC/21	2966184	PLC Relay Assembly with Solid State Relay
			Push-in	PLC-RPT-24UC/21	2900300	
		DPDT - 14 mm	Screw	PLC-RSC-24UC/21-21	2967073	
			Push-in	PLC-RPT-24UC/21-21	2900332	
230 V AC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-230UC/21	2966207	
		SPDT - 6.2 mm	Push-in	PLC-RPT-230UC/21	2900305	
		DPDT - 14 mm	Screw	PLC-RSC-230UC/21-21	2967099	

Solid-state relays

5 V DC	3 A	NO ONLY - 6.2 mm	Screw	PLC-OSC-5 DC/24 DC/2/ACT	2980144	PLC Relay Assembly with Solid State Relay
24 V DC	100 mA	NO ONLY - 6.2 mm	Push-in	PLC-OPT-5 DC/24 DC/2/ACT	2900375	
			Screw	PLC-OSC-24 DC/ 48 DC/100	2966728	
	3 A	NO ONLY - 6.2 mm	Push-in	PLC-OPT-24 DC/ 48 DC/100	2900352	
			Screw	PLC-OSC-24 DC/ 24 DC/2	2966634	
120 V AC or DC	3 A	NO ONLY - 6.2 mm	Push-in	PLC-OPT-24 DC/24 DC/2	2900364	
			Screw	PLC-OSC-120UC/24 DC/2	2966650	
	3 A	NO ONLY - 6.2 mm	Push-in	PLC-OPT-120UC/24 DC/2	2900355	
			Screw	PLC-OSC-120UC/24 DC/2	2900355	

Note: AC outputs also available

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

12 V DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-12 DC/21/EX	2909522	
	10 A	SPDT - 14 mm	Screw	PLC-RSC-12 DC/21-21/EX	2909517	
24 V DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-24 DC/21/EX	2909524	
			Push-in	PLC-RPT-24 DC/21/EX	2909528	
		DPDT - 14 mm	Screw	PLC-RSC-24 DC/21-21/EX	2909509	
			Push-in	PLC-RPT-24 DC/21-21/EX	2909514	
230 V AC	6 A	SPDT 6.2mm	screw	PLC-RSC-230UC/21/EX	2909526	
		DPDT 14mm	screw	PLC-RSC-230UC/21-21/EX	2909512	
	10 A	DPDT 14mm	screw	PLC-RSC-230UC/21HC/EX	2909521	
		DPDT 14mm	screw	PLC-RSC-230UC/21HC/EX	2909521	

Note: Additional coil voltages and connection technology options are available

Specialty

120 V AC/DC	6 A	SPDT - 6.2 mm	Screw	PLC-RSC-120UC/21/SO46	5603593
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Note: Other specialty relays available (manual switch, force-guided, filter, high-density, DC motor control, etc.)

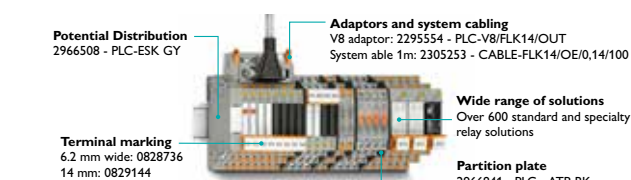
Replacement parts

Mechanical relays

Input-coil voltage	Output current	Sets of contacts	Description	Order #	
12 V DC	6 A	SPDT - 6.2 mm	REL-MR-12 DC/21	2961150	
24 V DC	6 A	SPDT - 6.2 mm	REL-MR-24 DC/21	2961105	
		DPDT - 14 mm	REL-MR-24 DC/21-21	2961192	
230 V AC	8 A	SPDT - 16 MM	REL-MR-230AC/21-21	2961451	
	16 A		REL-MR-230AC/21HC/MS	2987914	
	8A		REL-MR-230AC/21-21/MS	2987972	

Solid-state relays

5 V DC	3 A	SPST - 6.2 mm	OPT-5 DC/24 DC/2	2967989	
24 V DC	3 A	SPST - 6.2 mm	OPT-24 DC/24 DC/2	2966595	
60 V AC	3 A	SPST - 6.2 mm	OPT-60 DC/24 DC/2	2966605	



PLC relay bridging

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

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



General Purpose and Pluggable Relays

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



RIF-0
6.2 mm wide
66 mm tall
Lowest profile of all relays



RIF-1
16 mm wide
75 mm tall
Pin contacts



RIF-2
31 mm wide
75 mm tall
Blade contacts



RIF-3
40 mm wide
Pin contacts



RIF-4
42 mm wide
Small contactor style
Blade contacts

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



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

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

Smart Timer Relay

Exact time setting without testing and calculation



Display with countdown function for monitoring the module status



PIN code for protection from unauthorised changes



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



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



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

Signal Conditioners

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■	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	Type description	Order #
Line	0-10 V DC	0-10 V DC	MINI MCR-2-U-U	2902042
		Active 4-20 mA	MINI MCR-2-U-I4	2902029
	Active 4-20 mA	0-10 V DC	MINI MCR-2-I4-U	2902002
		Active 4-20 mA	MINI MCR-2-I-I	2901998
Universal and configurable analog sign				
Module power	Input signal	Output signal	Type description	Order #
Line	Active/universal	Active/universal	MINI MCR-2-UI-UI	2902037
	Active/universal	Active/universal/relay out	MINI MCR-2-UNI-UI-UIRO	2902026
	4 mA ... 20 mA	4 mA ... 20 mA	MINI MCR-2-RPSS-I-I	2902014
	0 V ... 10 V	4 mA ... 20 mA	MINI MCR-2-U-I4-PT	2902030
	Universal	Contact relay	MINI MCR-2-UI-REL-PT	2902035
	Universal	Universal	MINI MCR-2-UNI-UI-2UI	2905026
	Voltage	Universal	MINI MCR-2-U-UI	2902019
	Voltage	Voltage	MINI MCR-2-U-U-PT	2902043
Temperature signal conversion and isolation				
Module power	Input signal	Output signal	Type description	Order #
Loop	RTD	Universal analog	MINI MCR-2-RTD-UI	2902049
	Thermocouple	Universal analog	MINI MCR-2-TC-UI	2902055
	Universal temperature	N.O. relay set point	MINI MCR-2-T-REL	2905632
	PT100	Common analog	MINI MCR-SL-PT100-LP-NC	2810308
Low-power signal conversion and isolation				
Module power	Input signal	Output signal	Type description	Order #
Loop	Active 4-20 mA	Passive 4-20 mA	MINI MCR-2-I-I-ILP	2901994
	Active universal analog	Active 4-20 mA	MINI MCR-2-2I-2I-ILP	2901996
			MINI MCR-2-UI-I-OLP	2902061
	vvvvPassive 4-20 mA	Active 4-20 mA	MINI MCR-2-RPS-I-I-OLP	2906446
			MINI MCR-2-RPS-2I-2I-OLP	2906448
Specialty signal conversion and isolation				
Module power	Input signal	Output signal	Type description	Order #
Line	4-20 mA/HART	2x 4-20mA/HART	MINI MCR-2-RPSS-I-2I	2905628
	Analog	Frequency and set point	MINI MCR-2-UI-FRO	2902031
	Frequency and PWM	Active 4-20 mA	MINI MCR-2-F-UI	2902056
	Load cell/strain gage	4-20 ma/0-10 V	MCR-SGA-4/6-DC	5604058
	Potentiometer	Active 4-20 mA	MINI MCR-2-POT-UI	2902016
	Universal analog	2x 4-20 mA	MINI MCR-2-UI-2I-NC	2905026
	Universal analog	Set point/relay out	MINI MCR-2-UI-REL	2902033
HART				
Module power	Input signal	Output signal	Type description	Order #
Line	4-20 mA/HART	4-20 mA/HART	MINI MCR-2-RPSS-I-I	2902014

MINI MCR-2

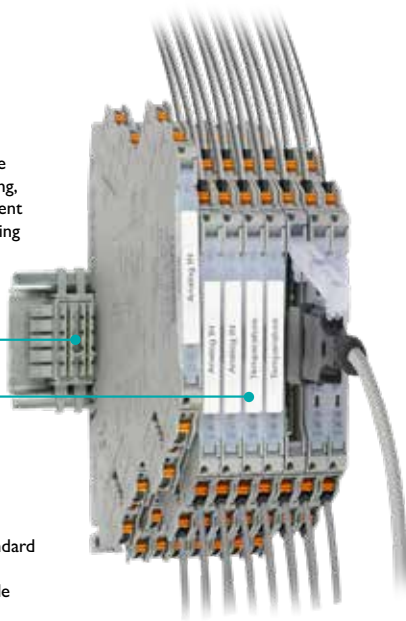


Rapid power bridging and group error messaging

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 you with an instant overview on site.



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



Measure signals during operation, without disconnecting the current loops.

Smart parameterisation and monitoring

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



Heavy-duty Connectors

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Standard (Metal)



Evo (Plastic)



Selector Guide (Pick 4 Parts)

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

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

HEAVYCON STANDARD

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

HEAVYCON EVO

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

ACCESSORIES - Cable Gland

HEAVYCON STANDARD

M20	1411163
M25	1411165
M32	1411166
M40	1411167

HEAVYCON EVO

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

M12 connectors

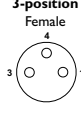
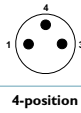
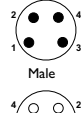
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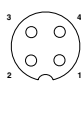
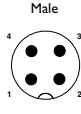
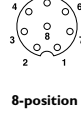
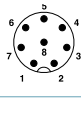


A comprehensive range of M8, and M12 flush-type connectors and panel feed-through has emerged as a result of the various requirements for sensor/actuator device connection technology in industrial environments.

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
3-position Female  Male 	3-pos.	Screw	Male straight	3.5...5 mm	1501252	SACC-M 8MS-3CON-M-SW
			Female straight		1506888	SACC-M 8FS-3CON-M-SW
		Insulation Displacement	Male straight	2.5...5 mm	1441008	SACC-M 8MS-3QO-0,25-M
			Female straight		1441066	SACC-M 8FS-3QO-0,5-M
4-position Female  Male 	4-pos.	Screw	Male straight	3.5...5 mm	1681169	SACC-M 8MS-4CON-M
			Female straight		1506891	SACC-M 8FS-4CON-M-SW
		Insulation Displacement	Male straight	3.5...5 mm	1441037	SACC-M 8MS-4QO-0,5-M
			Female straight		1521601	SACC-FS-4QO-0,75-M SCO

M12						
	Positions	Connection Tech	Head	Diameter	Order No.	Description
4-position Female  4-position Male 	4-pos.	Screw	Male straight	4...6 mm	1662528	SACC-M12MS-4CON-PG 7-M
			Male angled		1681101	SACC-M12MR-4CON-PG7-M
			Female straight		1681127	SACC-M12FS-4CON-PG7-M
			Female angled		1681143	SACC-M12FR-4CON-PG7-M
			Female angled		1681143	SACC-M12FR-4CON-PG7-M
		Insulation Displacement	Male straight	4...8 mm	1641785	SACC-M12MS-4QO-0,75-M
			Female straight		1641772	SACC-M12FS-4QO-0,75-M
		Push-In	Male straight		1424657	SACC-MS-4PL M SCO
			Male angled		1424654	SACC-M12MR-4PL M
			Female straight		1424655	SACC-M12FS-4PL M
			Female angled		1424656	SACC-M12FR-4PL M
5-position Female  5-position Male 	5-pos.	Screw	Male straight	4...6 mm	1663116	SACC-M12MS-5CON-PG 7-M
			Male angled	6...8 mm	1681460	SACC-M12MS-5CON-PG 9-M
			Female straight	4...6 mm	1663129	SACC-M12MR-5CON-PG 7-M
			Female angled		1662968	SACC-M12FS-5CON-PG 7-M
			Female angled		1662984	SACC-M12FR-5CON-PG 7-M
		Push-In	Male straight	4...8 mm	1424649	SACC-M12MS-5PL M
			Female straight		1424652	SACC-M12FS-5PL M
			Male angled		1424651	SACC-M12MR-5PL M
			Female angled		1424653	SACC-M12FR-5PL M
			Female angled		1424653	SACC-M12FR-5PL M
8-position Female  8-position Male 	8-pos.	Screw	Female straight	6...8 mm	1513347	SACC-M12FS-8CON-PG9-M
			Male straight		1513334	SACC-M12MS-8CON-PG9-M

Cordsets

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Connectivity, Switching & Conversion

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

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

M8/M12 Distributor Boxes

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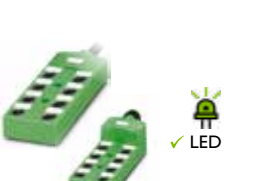
Use distributor boxes for quick and clear cabling in the field. Distributor boxes bundle several cables into one master cable that is connected to the controller. Thanks to the status indicator, you have an overview of a large number of signals.

- ✓ 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		
Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors
1516056 (5m)	x	x	1516111 (5m)	x	1516205 (M16)
1516069 (10m)			1516124 (10m)		

M12 Metal thread

 8 positions ✗ LED ● Single occupancy			 8 positions ✗ LED ● Double occupancy			 8 positions ✓ LED ● Single occupancy			 8 positions ✓ LED ● Double occupancy		
Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors
1517042 (5m)	1516881	×	1517068 (5m)	1516894	✗ ● Double occupancy	1517165 (5m)	1516823	×	1517181 (5m)	1516836	×
1517055 (10m)			1517071 (10m)			1517178 (10m)			1517194 (10m)		

8 positions ✗ LED ● Single occupancy			8 positions ✗ LED ● Double occupancy			8 positions ✓ LED ● Single occupancy			8 positions ✓ LED ● Double occupancy		
Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors
1452547 (5m)	1452796	1692844 (M23)	1452550 (10m)								

M12 Plastic thread

 8 positions Single occupancy ✗ LED			 8 positions Double occupancy ✗ LED			 8 positions Single occupancy ✓ LED			 8 positions Double occupancy ✓ LED		
Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors
1452518 (5m)	1452783	x	1452547 (5m)	1452796	1692844 (M23)	1452699 (5m)	1452848	x	1452725 (5m)	1452851	1692459 (M23)
1452521 (10m)			1452550 (10m)			1452709 (10m)			1452738 (10m)		

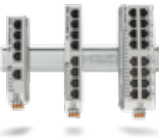
Accessories

Master cable ring For sensor/actuator boxes  Cross section			Master cable M23 plug connection  19 pos.		
Master cables	Cable glands	Connectors	Master cables	Cable glands	Connectors
1503344	50m	PUR/PVC black	1684056	5m	PUR/PVC black

Ethernet Switches

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Unmanaged switches

How many copper ports are required?				Are dual-power input and alarm contacts required?				
Are specialty ports required: Power Over Ethernet (POE) and/or fiber optic?				Is the installation in a hazardous location?				
What are the total number of ports required?				Are extreme environmental conditions present?				
What speed is required in the network?				Resulting Phoenix Contact part number				
Unmanaged switch 1000								
Copper ports	Specialty ports	Total ports	Speed	Power alarm	Hazardous	Type description	Order #	
5		5	10/100	N	Y	FL SWITCH 1005N	1085039	
8		8	10/100	N	Y	FL SWITCH 1008N	1085256	
16		16	10/100	N	Y	FL SWITCH 1016N	1085255	
5		5	Gigabit	N	Y	FL SWITCH 1105N	1085254	
8		8	Gigabit	N	Y	FL SWITCH 1108N	1085243	
SFNB								
5		5	10/100	N	Y	FL SWITCH SFNB 5TX	2891001	
4	1 Fiber, SC MM	4	10/100	N	Y	FL SWITCH SFNB 4TX/FX	2891027	
4	1 Fiber, ST MM	4	10/100	N	Y	FL SWITCH SFNB 4TX/FX ST	2891028	
4	1 Fiber, SC SM	4	10/100	N	Y	FL SWITCH SFNB 4TX/FX SM20	2891029	
8		8	10/100	N	Y	FL SWITCH SFNB 8TX	2891002	
SFN								
5		5	10/100	N	Y	FL SWITCH SFN 5TX	2891152	
4	1 Fiber, SC MM	5	10/100	N	Y	FL SWITCH SFN 4TX/FX	2891851	
4	1 Fiber, ST MM	5	10/100	N	Y	FL SWITCH SFN 4TX/FX ST	2891453	
8		8	10/100	N	Y	FL SWITCH SFN 8TX	2891929	
7	1 Fiber, SC MM	8	10/100	N	Y	FL SWITCH SFN 7TX/FX	2891097	
7	1 Fiber, ST MM	8	10/100	N	Y	FL SWITCH SFN 7TX/FX ST	2891110	
6	2 Fiber, SC MM	8	10/100	N	Y	FL SWITCH SFN 6TX/2FX	2891314	
6	2 Fiber, ST MM	8	10/100	N	Y	FL SWITCH SFN 6TX/2FX ST	2891411	
16		16	10/100	N	Y	FL SWITCH SFN 16TX	2891933	
15	1 Fiber, SC MM	16	10/100	N	Y	FL SWITCH SFN 15TX/FX	2891934	
14	2 Fiber, SC MM	16	10/100	N	Y	FL SWITCH SFN 14TX/2FX	2891935	

Managed switches

 How many copper ports are required?				 What special features are included?			
 How many fiber optic ports are required?				 What is the designation of the FL Switch?			
 What are the total number of Combo ports?				 Resulting Phoenix Contact part number			
 What is the speed?							
Copper ports	Fiber optic ports	Combo ports	Port speed	Special features	Designation FL SWITCH...	Order #.	
Intelligent switches for the machine: Switch 2000 and 2100							
Supply voltage: 18... 32 V DC (redundant), temperature range: - 0°C ... +60°C, IP20, front port outlet direction							
5 x RJ45	—	—	10/100 Mbps	—	2005	2702323	
8 x RJ45	—	—		—	2008	2702324	
16 x RJ45	—	—		—	2016	2702903	
5 x RJ45	—	—	10/100/1000 Mbps	—	2105	2702665	
8 x RJ45	—	—		—	2108	2702666	
16 x RJ45	—	—		—	2116	2702908	
Intelligent switches for universal use: Switch 2200 and 2300							
Supply voltage: 12... 57 V DC (redundant), temperature range: - 40°C ... +70°C, IP20, front port outlet direction, PROFINET Class B							
Approvals: DNV/GL, BV, ABS, LR, RINA, IECEx, ATEX Zone 2							
5 x RJ45	—	—	10/100 Mbps	Digital alarm output Fast Ring Detection, Large Tree Support, MRP Manager, up to 32 static VLANs, pool-based DHCP server and option 82	2205	2702326	
8 x RJ45	—	—			2208	2702327	
16 x RJ45	—	—			2216	2702904	
8 x RJ45	—	—	10/100/1000 Mbps		2308	2702652	
6 x RJ45	2 x SFP	—			2306-2SFP	2702970	



PoE and Installation Technology

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How many copper ports are required?					Are dual-power input and alarm contacts required?			
Are specialty ports required: Power Over Ethernet (POE) and/or fiber optic?					Is the installation in a hazardous location?			
What are the total number of ports required?					Are extreme environmental conditions present?			
What speed is required in the network?					Resulting Phoenix Contact part number			
Copper ports	Specialty ports	Total ports	Speed	Power alarm	Hazardous	Type description	Order #	SFNB
POE								
1	4 POE+	5	10/100	Y	N	FL SWITCH 1001T-4POE	2891064	POE 
0	2 POE+/2 fiber SFP	4	Gigabit	Y	N	FL SWITCH 1000T-2POE-GT-2SFP	1026765	
0	8 POE+/2 fiber SFP	10	Gigabit	Y	N	FL SWITCH 1000T-8POE-GT-2SFP	1026929	
1	4 POE+/1 fiber SFP	6	Gigabit	Y	N	FL SWITCH 1001T-4POE-GT-SFP	1026932	
1	4 POE+	5	Gigabit	Y	N	FL SWITCH 1001T-4POE-GT	1026937	
IP67								
5		24	10/100	N	N	FL SWITCH 1605 M12	2700200	

What connection methods does it have?			What POE standard does it comply to?				
What is the temperature rating?			What is the designation?				
What are the max power allowed ?			Resulting Phoenix Contact part number				
Does it have any special features?							
	Connection method	Temperature range	Power budget	Special features	PoE standard	Designation	Order #.
PoE Injector							
	RJ45 / RJ45	0 °C ... 55 °C	2 x 15 W	Electrical isolation in the power supply unit	IEEE 802.3 af	FL PSE 2TX	2891013
		0 °C ... +60 °C	15/30 W	--	IEEE 802.3 af/at (PoE+)	INJ 1000	2703005
			60 W	Electrical isolation in the power supply unit	Prepared for PoE bt (PoE++)	INJ 1010	2703007
			-40 °C ... +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
60 W	Prepared for PoE bt (PoE++)	INJ 1010-T		2703008			
15/30 W	IEEE 802.3 af/at (PoE+)	INJ 1100-T		2703009			
60 W	Prepared for PoE bt (PoE++)	INJ 1110-T		2703010			
RJ45 / IDC	15/30 W	IEEE 802.3 af/at (PoE+)		INJ 2102-T		2703012	
	60 W	Prepared for PoE bt (PoE++)		INJ 2112-T		2703014	
	15/30 W	IEEE 802.3 af/at (PoE+)		INJ 2103-T		1004065	
	60 W	Prepared for PoE bt (PoE++)		INJ 2113-T		1004066	
RJ45 / Push-in	15/30 W	IEEE 802.3 af/at (PoE+)		INJ 2101-T		2703011	
RJ45 /screw	60 W	Prepared for PoE bt (PoE++)		INJ 2111-T		2703013	

PoE and Installation Technology

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What connection methods does it have?	Does it have surge protection?							
What type of patch panel is this?	What is the designation?							
How is it shielded?	Resulting Phoenix Contact part number							
How is the shield connected?								
	Connection method	Description	Shielding	Cable shield connection	Surge protection	Designation	Order #	
Patch panels								
	RJ45/RJ45	Standard Ethernet patch panel, 8-pos., 10/100/100 Mbps	Right on the DIN rail	Using an RJ45 socket	No	PP-RJ-RJ	2703015	
	RJ45 /screw			Toolless using shield contact spring		PP-RJ-SC	2703016	
	RJ45 /Push-in			Using an RJ45 socket		PP-RJ-SCC	2703018	
	RJ45 /IDC			Toolless using shield contact spring		PP-RJ-IDC	2703019	
	RJ45 /RJ45	Function variant Ethernet patch panels 8-pos., 10/100/1000 Mbps		Right on the DIN rail	Toolless using shield contact spring	Yes	PP-RJ-RJ-F	2703020
	RJ45 /screw						PP-FJ-SC-F	2703021
	RJ45 /Push-in						PP-RJ-SCC-F	2703022
	RJ45 /IDC						PP-RJ-IDC-F	2703023J



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 your installation.



Quick and easy installation

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

Industrial Wireless

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What's the voltage range?	What wireless technology used?						
What's the temperature range?	What's the input/output?						
	Resulting Phoenix Contact part number						
Wireless Ethernet							
Voltage range	Temperature range	Wireless Frequency	Wireless Technology	I/O	Type description	Order #	
10 - 36 VDC	-25 °C to 60 °C	2.4 / 5 GHz	WLAN a, b,g,n	-	FL WLAN 5110	1043193	
9 - 32 VDC	0 °C to 60 °C	2.4 / 5 GHz	WLAN a, b,g,n	-	FL WLAN 1100	2702534	
9 - 30 VDC	-40 °C to 65 °C	2.4 / 5 GHz	Bluetooth / WLAN a, b,g,n	-	FL EPA 2 RSMA	1005957	
Wireless Serial / IO							 
19.2 - 30.5 VDC	-40 °C to 70 °C	2.4 GHz	Trusted Wireless	-	RAD-2400-IFS	2901541	
10.8 - 30.5 VDC	-40 °C to 70 °C	915 MHz	Trusted Wireless	-	RAD-900-IFS-AU	2702878	
19.2 - 30.5 VDC	-40 °C to 70 °C	-	-	-	RAD-RS485-IFS	2702184	
19.2 - 30.5 VDC	-40 °C to 70 °C	-	-	4 digital inputs	RAD-DI4-IFS	2901535	
19.2 - 30.5 VDC	-40 °C to 70 °C	-	-	4 relay outputs	RAD-DOR4-IFS	2901536	
19.2 - 30.5 VDC	-40 °C to 70 °C	-	-	8 digital inputs	RAD-DI8-IFS	2901539	
19.2 - 30.5 VDC	-40 °C to 70 °C	-	-	8 digital transistor outputs	RAD-DO8-IFS	2902811	
19.2 - 30.5 VDC	-40 °C to 70 °C	-	-	4 analogue inputs	RAD-AI4-IFS	2901537	
19.2 - 30.5 VDC	-40 °C to 70 °C	-	-	4 analogue outputs	RAD-AO4-IFS	2901538	
19.2 - 30.5 VDC	-40 °C to 70 °C	-	-	2 digital inputs and outputs, 1 analogue input and output	RAD-DAIO6-IFS	2901533	
19.2 - 30.5 VDC	-40 °C to 70 °C	-	-	4 RTD PT100 inputs	RAD-PT100-4-IFS	2904035	
19.2 - 30.5 VDC	-40 °C to 70 °C	-	-	4 NAMUR digital inputs	RAD-NAM4-IFS	2316275	



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

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

What's the connection type?	What's the attenuation of the cable?			
What's the length of the cable?	Resulting Phoenix Contact part number			
Wireless Accessories - Coaxial cable				
Connection	Length	Attenuation	Type description	Order #
N (male) -> RSMA (male)	0.5 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-0.5	2903263
N (male) -> RSMA (male)	1 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-1	2903264
N (male) -> RSMA (male)	2 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-2	2903265
N (male) -> RSMA (male)	3 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-3	2903266
N (male) -> RSMA (male)	5 m	0.5 / 0.8 / 1.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-PIG-RSMA/N-5	2702140
2x N (male)	3 m	1.0 / 1.5 / 2.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-CAB-PFP240-10	5606124
2x N (male)	6 m	1.0 / 1.5 / 2.1 dB at 0.9 / 2.4 / 5.8 GHz	RAD-CAB-PFP400-20	5606125





Secure Remote Connectivity

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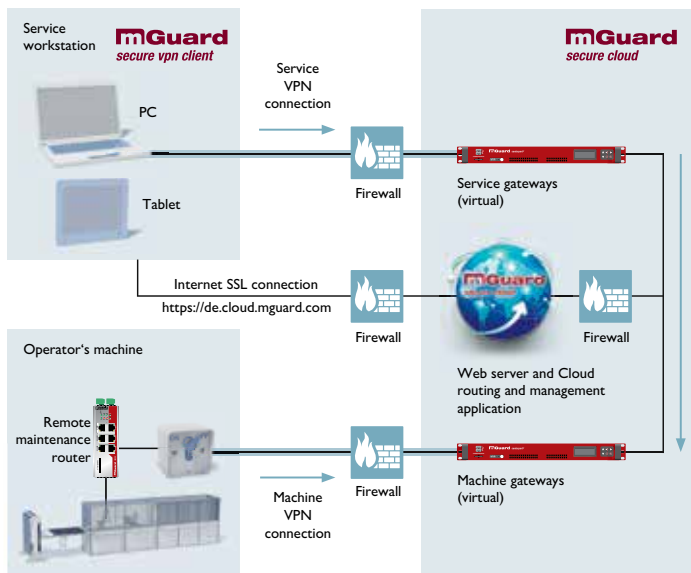
Phoenix Contact Order No.	Mguard cloud compatible?	Does it have DMZ capability?				
Can it be installed in a hazardous location?	What external memory type does it have?	Is it Cellular capable?				
How many copper ports does it have?	Does it have a full stateful firewall?	Can it fall over from a wired connection to cellular network?				
What is the temperature rating?	Is it VPN hub capable?					
MGuard						
						
Model	FL mGuard RS2000	FL mGuard RS2005	TC mGuard RS2000	FL mGuard RS4000	FL mGuard RS4004	mGuard RS4000
Order #	2700642	2701875	2903588	2200515	2701877	2903586
C1D2	Yes	Yes	Yes	Yes	Yes	Yes
LAN ports available	1	5	4	1	4	4
Temperature	-20 C -> +60 C	-20 C -> +60 C	-40 C -> +60 C	-20 C -> +60 C	-20 C -> +60 C	-40 C -> +60 C
mGuard Secure Cloud compatible	Yes	Yes	Yes	Yes	Yes	Yes
External memory	SD	SD	SD	SD	SD	SD
Full stateful firewall				Yes	Yes	Yes
VPN hub capability						
DMZ capability				Yes	Yes	Yes
Cellular and GPS capability					Yes	Yes
Failover from wired to cell			Yes			Yes

Cloud-based Remote Maintenance

mGuard Secure Cloud



Functional components and features of the mGuard Secure Cloud



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

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

Features:

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

Axioline F for the Control Cabinet

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Technical Data			
Ambient conditions		Supply voltages	
Temperature range (operation)	-25°C ... +60°C	Nominal value	24 V DC
Relative humidity (operation)	5% ... 95% (no condensation)	Ripple	±5% according to EN 61131-2
Vibration	5g according to EN 60068-2-6	Permissible range	19.2 V DC ... 30.0 V DC
Shock	30g according to EN 60068-2-27	System times	
Continuous shock	10g according to EN 60068-2-29		
Degree of protection	IP20		
Electromagnetic compatibility			
Noise emission	Class B according to EN 61000-6-3	System bus cycle time	2 μs
Noise immunity	According to EN 61000-4	Module offset	1 μs
		Bus coupler offset	0 μs
		Approvals	

	Product description							
	What is the designation?							
	Resulting Phoenix Contact part number?							
Network connection								
Bus couplers	Description	Designation	Order No.		Bus couplers	Description	Designation	Order No.
	 Bus coupler for PROFINET	AXL F BK PN	2701815			 Bus coupler for Modbus TCP	AXL F BK ETH	2688459
	 Bus coupler for EtherCAT	AXL F BK EC	2688899			 Bus coupler for PROFIBUS	AXL F BK PB	2688530
	 Bus coupler for EtherNet/IP™	AXL F BK EIP (available from Dec. 2014)	2688394					

PLCnext Control

Flexible integration of open-source software and apps

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



Description	Order No.
AXC F 1152 - Compact controller	1151412
AXC F 2152 - Mid performance controller	2404267
AXC F 3152 - High performance controller	1069208



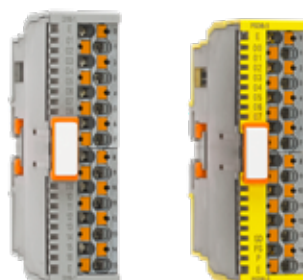
Axioline F for the Control Cabinet

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What is the description of the product model?				
What is the designation?				
Resulting Phoenix Contact part number				
Acquiring digital data				
	DI Digital input • 16 to 64 channels • High-speed inputs • 54 mm and 35 mm design width	Description	Designation	Order No.
		16 digital inputs, 1-wire	AXL F DI16/1 1H	2688310
		16 digital inputs, 1-wire, high speed	AXL F DI16/1 HS 1H	2701722
		16 digital inputs, 4-wire	AXL F DI16/4 2F	2688022
		32 digital inputs, 1-wire	AXL F DI32/1 1F	2688035
	DO Digital output • 8 to 32 channels • 2 A outputs • 54 mm and 35 mm design width	64 digital inputs, 1-wire	AXL F DI64/1 2F	2701450
		8 digital outputs, 2-wire, 2 A	AXL F DO8/2 2A 1H	2688381
		16 digital outputs, 1-wire	AXL F DO16/1 1H	2688349
		16 digital outputs, 3-wire	AXL F DO16/3 2F	2688048
	DI DO Digital input/output • 35 mm	32 digital outputs, 1-wire	AXL F DO32/1 1F	2688051
		8 digital inputs, 8 digital outputs, 1-wire	AXL F DI8/1 DO8/1 1H	2701916
Acquiring analog data				
	AI Analog input • 4 to 8 channels • 54 mm and 35 mm design width	4 analog inputs, current	AXL F AI4 I 1H	2688491
		4 analog inputs, voltage	AXL F AI4 U 1H	2688501
		8 analog inputs, current/voltage	AXL F AI8 1F	2688064
		4 temperature inputs, RTD	AXL F RTD4 1H	2688556
		4 temperature inputs, UTH	AXL F UTH4 1H	2688598
		8 temperature inputs, RTD	AXL F RTD8 1F	2688077
		8 temperature inputs, UTH	AXL F UTH8 1F	2688417
	AO Analog output • 4 to 8 channels • 54 mm and 35 mm design width	4 analog outputs, current/voltage	AXL F AO4 1H	2688527
		8 analog outputs, current/voltage	AXL F AO8 1F	2688080
Special function modules				
	FKT Special function modules • 54 mm and 35 mm design width	1 interface can be configured as RS-485/RS-422 or RS-232	AXL F RS UNI 1H	2688666
		2 counter inputs, 2 incremental encoder inputs	AXL F CNT2 INC2 1F	2688093
		1 SSI interface, 1 analog output	AXL F SSI1 AO1 1H	2688433

Axioline Smart Elements IO

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



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

Control Cabinet Lights

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Class 400 PLD enclosure lights					
Model View					
Type		PLD E 400 W 250		PLD E 400 W 375	
Order #		2702221		2702222	
Dimensions L x W x H		250 mm x 23 mm x 38 mm		375 mm x 23 mm x 38 mm	
Luminous flux		140 lm (net luminous flux)		340 lm (net luminous flux)	
Protection class		III		III	
Power consumption		1.5 W		3 W	
Accessories					
Door switches	Type	PLD E 400-DS-3,0/FS/0,6		PLD E 400-DS-MS/1,0-FS/0,6	
	Order #	2702336		2702337	
	Description	Door position switch set: 3 m line with free cable end, 0.6 m line with M8 socket, incl. mounting material		Door position switch set: 1 m line with M8 plug, 0.6 m line with M8 socket, incl. mounting material	
Power supplies	Type	PLD E 400-DS/1AC/24DC/12W		PLD E 400-ME MM	
	Order #	2702435		2702436	
	Description	12 W power supply unit with country-specific plug adapters		30 W power supply unit with diverse country-specific plug adapters	
Mounting materials	Type	PLD E 400-ME CM	PLD E 400-ME MM		PLD E 400-ME SM
	Order #	2702314	2702312		2702313
	Description	2 clip holders (Included)	2 magnets for magnetic mounting		2 fasteners for screw mounting, including screws and washers
Cables	Type	SAC-3P-M 8MS/0,6-PUR/M 8SIFS	SAC-3P-M 8MS/1,0-PUR/M 8SIFS	SAC-3P-M 8MS/3,0-PUR/M 8SIFS	SAC-3P- 3,0-PUR/M 8SIFS AE
	Order #	1417699	1417700	1417701	1417698
	Description	Cable for series connection with M8 socket and M8 plug, halogen-free PUR, black, 0.6 m, 3 x 0.25 mm²	Cable for series connection with M8 socket and M8 plug, halogen-free PUR, black, 1 m, 3 x 0.25 mm²	Cable for series connection with M8 socket and M8 plug, halogen-free PUR, black, 3 m, 3 x 0.25 mm²	Connection cable with socket and free cable end, halogen-free PUR, black, 3 m, 3 x 0.25mm²

Class 600 PLD enclosure lights			
Model View			
Type		PLD E 608 W 265	PLD E 608 W 315/B
Order #		2702224	2702227
Dimensions L x W x H		265 mm x 91 mm x 44 mm	315 mm x 91 mm x 344 mm
Socket		-	Type B
Motion sensor		Yes	Yes
Protection class		I	I
Power consumption		10 W	10W
Accessories			
Type		PLD E608-CA-3,0/FS AM	
Order #		2702302	
Description		Connection cable with socket and free cable end, orange, 3 m, 3 x 1.5mm²	
Type		PLD E 608-CA-MS/0,6/FS AM	
Order #		2702303	
Description		Cable for series connection with socket and plug, orange, 0.6m, 3 x 1.5mm²	Cable for series connection with socket and plug, orange, 4 m, 3 x 1.5mm²
Type		PLD E 608-CO-MS	
Order #		2702308	
Description		Plug for series connection, black, 3-pos	
Type		PLD E 608-ME MM	
Order #		2702315	
Description		2 magnets for magnetic mounting	2 fasteners with retaining hooks (replacement part)

 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?	

HMI's for HTML5 applications

Model View						
Designation	BWP 2043W	BWP 2070W	BWP2102W	BWP 4070W/P	BWP 4101W/P	BWP 4120W/P
Order #	1060549	1060632	1060630	1065546 (configurable product)		
Display (in cm)	10.92 (4.3 inches)	17.8 (7 inches)	26.4 (10.2 inches)	17.78 (7 inches)	25.65 (10.1 inches)	30.73 (12.1 inches)
Colours	262,144			16.7million		
Resolution (w x h in pixels)	480 x 272 (WQVGA)	800 x 480 (WVGA)	1024 x 600 (WVGA)	1280 x 800 (WXGA)		
Brightness (in cd/m ²)	300			400	850	320
Backlight (MTTF in h)	20,000			50,000		
Touch technology	Polyester, analog resistive			Projective-capacitive (PCAP)		
Processor	Cortex®-A9 (i.MX6 Solo)			ARM® Cortex®-A53, 4x 1.2 GHz		
Temperature range	Operation: 0°C ... +50°C Storage: -20°C ... +85°C			Operation: 0°C ... +50°C Storage: -20°C ... +85°C		
Degree of protection (front/back)	IP65/IP20			IP65/IP20		
Approvals	UL/cUL/Class I, Div. 2			UL/cUL, Class I, Div. 2, NEMA 4X		

HMI's for standard applications

Model View								
Designation	BTP 2043	BTP 2070W	BTP2102W	TP 3070W/P	TP 3090W/P	TP 3120W/P	TP 3156W/P	TP 3185W/P
Order #	1050387	1046666	1046667	2403459	2403460	2403461	2403462	2403862
Display (in cm)	10.92 (4.3 inches)	17.8 (7 inches)	26.4 (10.2 inches)	17.78 (7 inches)	22.68 (9 inches)	30.73 (12.1 inches)	39.62 (15.6 inches)	47.00 (18.5 inches)
Colours	262,144			16.77 million				
Resolution (w x h in pixels)	480 x 272 (WQVGA)	800 x 480 (WVGA)		800 x 480 (WVGA)		1280 x 800 (WXGA)	1366 x 768 (WXGA)	
Brightness (in cd/m²)	300			400	800	320		240
Backlight (MTTF in h)	20,000			40,000	70,000	50,000	70,000	50,000
Touch technology	Polyester, analog resistive			Projective-capacitive (PCAP)				
Processor	ARM®9 i.MX28, 454 MHz			ARM® Cortex®-A8, 1 GHz, real-time clock (with battery backup)				
Temperature range	Operation: 0°C ... +50°C, storage: -20°C ... +85°C				Operation: -0°C ... +50°C, storage: -25°C ... +70°C			
Degree of protection (front/back)	IP66/IP20			IP65/IP20				
Approvals	UL/cUL/Class I, Div. 2			UL/cUL, Class I, Div. 2, NEMA 4X				

Safety Relays

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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-MS20 ¹⁾ 24 V DC	●	●	—	●	—	—	A	1	—	—	1	c ⁴⁾	1 ⁴⁾	6.8	2904950	—
PSR-MS25 ¹⁾ 24 V DC	●	●	—	●	—	—	M	1	—	—	1	c ⁴⁾	1 ⁴⁾	6.8	2904951	—
PSR-MS40 ³⁾ 24 V DC	●	●	—	—	—	●	A	1	—	—	1	e	3	6.8	2904954	—
PSR-MS60 ³⁾ 24 V DC	●	●	●	●	—	● ¹⁰⁾	A	2	—	—	—	e	3	6.8	2904958	—
PSR-MC32 24...230 V DC	●	●	●	●	—	● ¹⁰⁾	A/M	3	—	1	—	e	3	22.5	2700524	—

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	—	c ²⁾	1 ²⁾	—	2963802	296354
PSR-ESAM4/3X1-B Voltage variants	●	●	—	—	—	—	A/M	3	—	1	—	e	3	—	See catalog for ordering data	
PSR-ESL4 ¹⁾ 24 V AC/DC	●	●	●	—	—	●	A/M	3	—	1	—	e	3	—	2981059	2981062
PSR-THC4 ²⁾ 24 V AC/DC	—	●	—	—	●	—	A	2	—	1	—	e	3	—	2963721	2963983
PSR-URM4 42 ... 230 V AC/DC	Contact extension							4	—	2	—	e ³⁾	3 ³⁾	—	2702924	2702925
PSR-URM4 24 V AC/DC	Contact extension							5	—	2	—	e ³⁾	3 ³⁾	—	2963734	2964005

Safety Relays

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

PSRmultifunction: Multifunctional safety relays																
Type	Applications							Output contacts		Safety approvals		Width	Order #			
										PL in accordance with EN ISO 13849-1	SILCL in accordance with EN 62061	In mm	Screw connection	Spring-cage connection	Push-in connection	
PSR-MXF1 24 V DC	●	●	–	–	–	–	A/M	4	2	e	3	–	2902725	2902726	2903253	
PSR-MXF2 24 V DC	●	●	–	●	–	–	A/M	4	2	e	3	–	2903254	2903255	2903256	
PSR-MXF3 24 V DC	●	●	●	–	–	●	A/M	4	2	e	3	–	2903257	2903258	2903259	

PSRmini: Highly compact,safe coupling relays for the process industry																
Type	Applications	Output contacts			Diagnostics / proof test				Safety approvals				Width	Order #		
	Highly compact, safe coupling relays for failsafe controllers:				Visual via LED	Active error acknow- ledgment via A1 ⁽²⁾	Measurement on the device	Self-monitoring with interlocking	SIL in accordance with IEC 61508 / 61511	SIL in accordance with IEC 50156	ATEX / IECEx / Class I zone 2	G3 in accordance with ANSI / ISA-S71.04	GL	In mm	Screw connection	
PSR-PS20 24 V DC	For safety-related shutdown (ESD)	1	1	1	●	●	●	–	3	3	●	●	●	6.8	2700356	
PSR-PS21 24 V DC		1	1	1	●	●	●	–	2	2	●	●	●	6.8	2700357	
PSR-PS23 24 V DC		1	1	–	●	–	●	–	3	3	●	●	●	6.8	2702663	

PSRclassic: Classic, safe coupling relays for the process industry															
	Highly compact, safe coupling relays for failsafe controllers:				Visual via LED	Active error acknow- ledgment via A1 ²⁾	Measurement on the device	Self-monitoring with interlocking	SIL in accordance with IEC 61508 / 61511	SIL in accordance with IEC 50156	ATEX / IECEx / Class I zone 2	G3 in accordance with ANSI / ISA-S71.04	GL	In mm	Screw connection
PSR-FSP 24 V DC	For safety-related shutdown (ESD)	1	1	–	–	–	●	–	3	3	–	–	●	17.5	2981978
PSR-FSP/2x1 24 V DC		2	1	–	–	–	●	–	3	3	–	–	●	17.5	2986960

Force guided contact relays

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)	What accessories are needed?
How many sets of contacts do you need: SPDT, DPDT, etc.?	

Electromechanical relays					
Input-coil voltage	Output current	Sets of contacts	Termination style	Description	Order #
24 V DC	6 A	DPDT - 14 mm	Screw	PLC-RSC-24 DC/21	2910535
			Push-in	PLC-RPT-24 DC/21-21	2910537
RIF slimline relays					
24 V DC	6 A	DPDT - 14 mm	Screw	PLC-RSC-24 DC/21	2909848
			Push-in	PLC-RPT-24 DC/21-21	2908215



Replacement parts					
Mechanical relays					
Input-coil voltage	Output current	Sets of contacts	Description	Order #	
24 V DC	6 A	DPDT - 14 mm	REL-MR-24 DC/21-21	2961192	



Safety Relays

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PSRswitch non-contact safety switches

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

Safe I/Os

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



Configurable safety systems

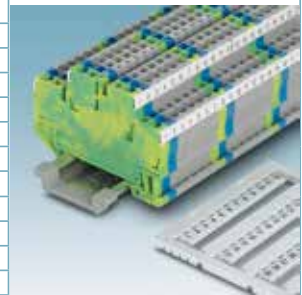
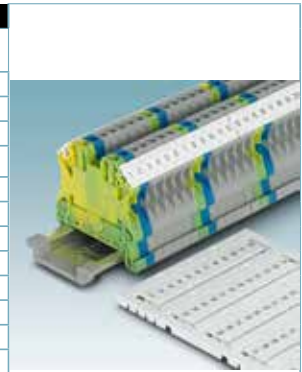
With configurable safety systems from Phoenix Contact, you can adapt your safety technology so it is tailored to your needs. Use our high-performance basic modules as a stand-alone solution or extend the system flexibly with extension modules including the monitoring of motion and analog value data.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



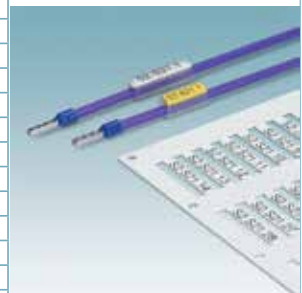
Marking

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



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



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



Ribbon		
Order #	Description	
0801371	THERMOMARK-RIBBON 110-TC	Standard ink ribbon for all thermal marking - CARD PRINTER Length 300m
0801358	THERMOMARK-RIBBON 110-WMSU	Standard ink ribbon heat shrink materials - ROLL PRINTER Length 300mRibbon
5145384	THERMOMARK-RIBBON 110	Standard ink ribbon for all thermal marking (not heat shrink) ROLL PRINTER Length 300m
0803374	TMP-RIBBON 110 BK 100	Standard ink ribbon for all thermal marking - CARD PRINTER Length 70m
0803714	TMP-RIBBON 110 BK 101	Ink ribbon for print images with large areas of black



Installation

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	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 wire and multi-conductor cables?				 What tools do you need to terminate conductors?	
Installation						
Cut	Function	Conductor size		Description	Order #	
	Cable-cutting tool	Up to 35 mm²		CUTFOX 12	1212128	
	Cable-cutting tool	Up to 50 mm² or 1/0		CUTFOX 18	1212129	
	Diagonal cutter	VDE Insulated		CUTFOX S VDE	1212207	
	Cable-binder cutter	“For plastic cable binders up to 4.8 mm wide		UNIFOX-CT 4,8P	1212609	
Strip	Single conductor					
	Function	Conductor size	Insulation type	Description	Order #	
	Self-adjusting stripping tool	0.08-2.5 mm²	Standard	WIREFOX 2.5	1212368	
	Self-adjusting stripping tool	0.1 - 4 mm²	Special insulation, e.g., PTFE	WIREFOX 4	1212156	
	Self-adjusting stripping tool	0.02 - 10 mm²	Standard	WIREFOX 10	1212150	
	Multi-conductor					
	Strips sensor/actuator cables	4.4 - 7 mm²	SAC cables	WIREFOX SAC	1212623	
	Strips multi-conductor cables	max insulation 1mm 2.5-11mm	Any	WIREFOX-D 11	1212160	
	Strips large, multi-conductor cables	4.5 - 40 mm Ø	Any	WIREFOX-D 40	1212161	
	Replacement blade available					
Crimp	Crimping tools			Description	Order #	
	Conductor size		Crimp shape			
	0.14 - 6 mm²		Square	CRIMPFOX CENTRUS 6S	1213144	
			Hex	CRIMPFOX CENTRUS 6H	1213146	
	0.14 - 10 mm²		Square	CRIMPFOX CENTRUS 10S	1213154	
			Hex	CRIMPFOX CENTRUS 10H	1213156	
	0.25 - 6 mm²		Trapezoid	CRIMPFOX 6	1212034	
	10 - 25 mm²		Trapezoid	CRIMPFOX 25R	1212039	
0.14-10mm²		Trapezoid	CRIMPFOX DUO 10	1031721		
Assemble	Screwdrivers			Description	Order #	
	Tool					
	Torque screwdriver: 0.3 - 1.2 Nm / 2.6 in. lb - 10.6 in. lb			TSD-M 1,2NM	1212224	
	Torque screwdriver: 1.2 - 3.0 Nm / 10.6 in. lb - 26.5 in. lb			TSD-M 3NM	1212225	
	Torque screwdriver: 3.0 - 6.0 Nm / 26.5 in. lb - 53 in. lb			TSD-M 6NM	1212226	
	Micro screwdriver - Flat head - 0.4 mm blade			SZS 0,4X2,0	1205202	
	Standard screwdriver - Flat head - 0.6 mm blade			SZF 1-0,6X3,5	1204517	
	Tool set - 17-part kit			SF-M SET 2	1212756	
	16 Speed cordless screwdriver set			SF-ASD 16 SET	1200295	
#2 Roberston Screwdriver, 8” long			SF-SQ 2-200	1072455		
Ferrules	Bootlace ferrules					
	Size	Colour	Std pack	Description	Order #	
	0.5 x 8mm	White	100	AI 0,5 - 8 WH	3200014	
	0,75 x 8mm	Blue	100	AI 0,75- 8 BU	3200027	
	0.75 x 12mm	Grey	100	AI 0,75-12 GY	3200849	
	1 x 8mm	Red	100	AI 1 - 8 RD	3200030	
	1 x 12mm	Red	100	AI 1 -12 RD	3200674	
	1.5 x 8mm	Black	100	AI 1,5 - 8 BK	3200043	
	1.5 x 18mm	Black	100	AI 1,5 -18 BK	3200056	
	2.5 x 8mm	Blue	100	AI 2,5 - 8 BU	3200522	
	2.5 x 8mm	Grey	100	AI 2,5 - 8 GY	3200069	
	2.5 x 18mm	Blue	100	AI 2,5 -18 BU	3200580	
	4 x 10mm	Grey	100	AI 4 -10 GY	3200535	
	4 x 18mm	Grey	100	AI 4 -18 GY	3200593	
	6 x 12mm	Green	100	AI 6 -12 GN	3200108	
	6 x 18mm	Green	100	AI 6 -18 GN	3200111	
	Twin 0.5 x 8mm	White	100	AI-TWIN 2X 0,5 - 8 WH	3200933	
	Twin 0.75 x 12mm	Grey	100	AI-TWIN 2X 0,75-10 GY	3200975	
	Twin 1 x 10mm	Red	100	AI-TWIN 2X 1 -10 RD	3200988	
	Twin 1.5 x 12mm	Black	100	AI-TWIN 2X 1,5 -12 BK	3200991	
	Twin 2.5 x 13mm	Blue	100	AI-TWIN 2X 2,5 -13 BU	3200878	
	0.5 x 8mm	White	1000	AI 0,5 - 8 WH-B	3201369	
	0.75 x 8mm	Blue	1000	AI 0,75- 8 BU-B	3201547	
	0.75 x 8mm	Grey	1000	AI 0,75- 8 GY-B	3201372	
	1 x 8mm	Red	1000	AI 1 - 8 RD-B	3201385	
	1.5 x 8mm	Black	1000	AI 1,5 - 8 BK-B	3201398	
	2.5 x 8mm	Blue	500	AI 2,5 - 8 BU-B	3201408	
	2.5 x 8mm	Grey	500	AI 2,5 - 8 GY-B	3201550	

Cable Duct and Din Rail

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Cable Duct						
Height	Width	Length	Colour	Qty/ box	Description	Order #
25mm	25mm	2000mm	Gray	25	CD 25x25	3240187
40mm	25mm	2000mm	Gray	24	CD 25x40	3240188
60mm	25mm	2000mm	Gray	15	CD 25x60	3240191
80mm	25mm	2000mm	Gray	10	CD 25x80	3240191
40mm	40mm	2000mm	Gray	25	CD 40x40	3240189
60mm	40mm	2000mm	Gray	20	CD 40x60	3240192
80mm	40mm	2000mm	Gray	10	CD 40x80	3240198
100mm	40mm	2000mm	Gray	10	CD 40x100	3240294
40mm	60mm	2000mm	Gray	20	CD 60x40	3240190
60mm	60mm	2000mm	Gray	12	CD 60x60	3240193
80mm	60mm	2000mm	Gray	10	CD 60x80	3240199
100mm	60mm	2000mm	Gray	8	CD 60x100	3240263
60mm	80mm	2000mm	Gray	10	CD 80x60	3240194
80mm	80mm	2000mm	Gray	6	CD 80x80	3240200
100mm	80mm	2000mm	Gray	8	CD 80x100	3240264
60mm	100mm	2000mm	Gray	8	CD 100x60	3240195
80mm	100mm	2000mm	Gray	6	CD 100x80	3240201
100mm	100mm	2000mm	Gray	6	CD 100x100	3240205



Din rail				
Length	Qty/ box	Description	Long Description	Order #
2000mm	5	NS 35/ 7,5 PERF 2000MM	Steel, galvanized, passivated with a thick layer	3240264
2000mm	5	NS 35/ 7,5 UNPERF 2000MM	Steel, galvanized, passivated with a thick layer	3240195
2000mm	5	NS 35/15 PERF 2000MM	Steel, galvanized, passivated with a thick layer	3240201
2000mm	5	NS 35/15 UNPERF 2000MM	Steel, galvanized, passivated with a thick layer	1201714
2000mm	5	NS 15 PERF 2000MM	Steel, galvanized, passivated with a thick layer	3240205



Din rail accessories			
Qty/ box	Description	Long Description	Order #
100	NS 35/ 7,5 CAP	DIN rail end piece, for DIN rail NS 35/7.5	1206560
100	NS 35/ 15 CAP	DIN rail end piece, for DIN rail NS 35/15	1206573
50	CLIPFIX 35	Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail	3022218
50	CLIPFIX 35-5	Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail	3022276
10	E/AL-NS 35	Aluminium end clamp, for NS35 fixed with 2 screws	1201662
50	E/NS 35 N	End clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail	0800886
50	CLIPFIX 15	Quick mounting end clamp for NS 15	3022263



Din rail and cable duct cutters		
Description	Long description	Order #
PPS BASIC I/M	Profile cutter, for cutting standard DIN rails to length, NS 15 / NS 35/7,5 / NS 35/15, and for cutting the NLS-CU 3/10 neutral busbar to length, with inch/metric measuring rail	1207585
PPS CD M	Cable duct cutter, for burr-free cutting cable ducts and their covers, can be used up to a width of 125 mm	1207569
CUTFOX-CD	Cable duct cutter, for cutting plastic cable ducts, covers, and profiles, 45° limit stop also for bevel cuts, 75 mm cutting length	1212474

PPS BASIC I/M

PPS CD M

CUTFOX-CD



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

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

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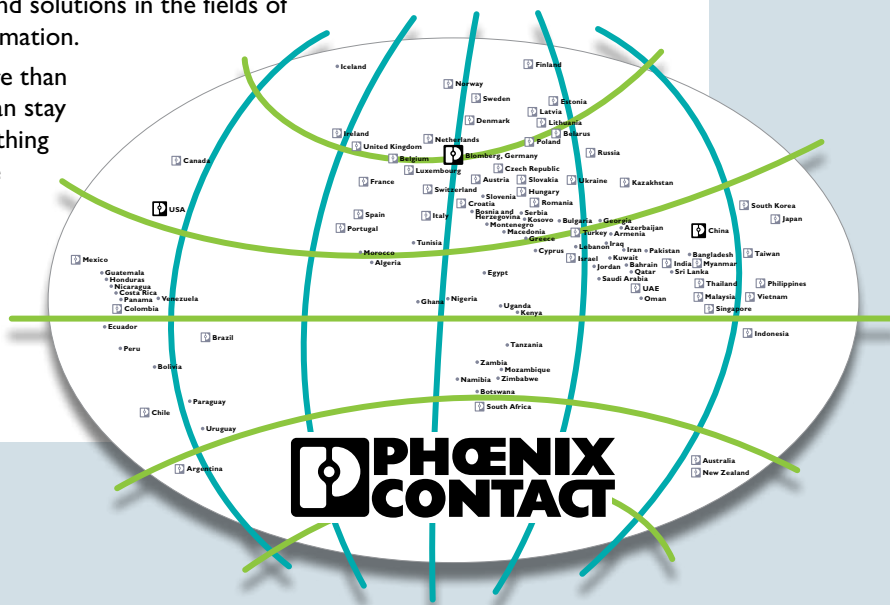
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