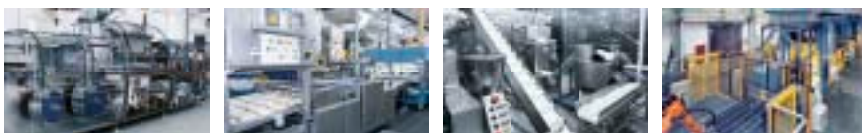




Decentralised modules PDP20 and PDP67

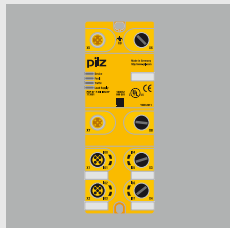
pilz
the spirit of safety

Decentralised modules for a high degree of decentralisation.



► Decentralised modules PDP20 and PDP67

With the decentralised modules from Pilz you achieve a high degree of decentralisation. Modules to protection type IP20 (PDP20) and protection type IP67 (PDP67) are available. The PDP20 modules are integrated in the control cabinet or in small installation boxes. The PDP67 modules are used for the connection of safe sensors directly in the field.



PDP 67 F 8DI ION HP

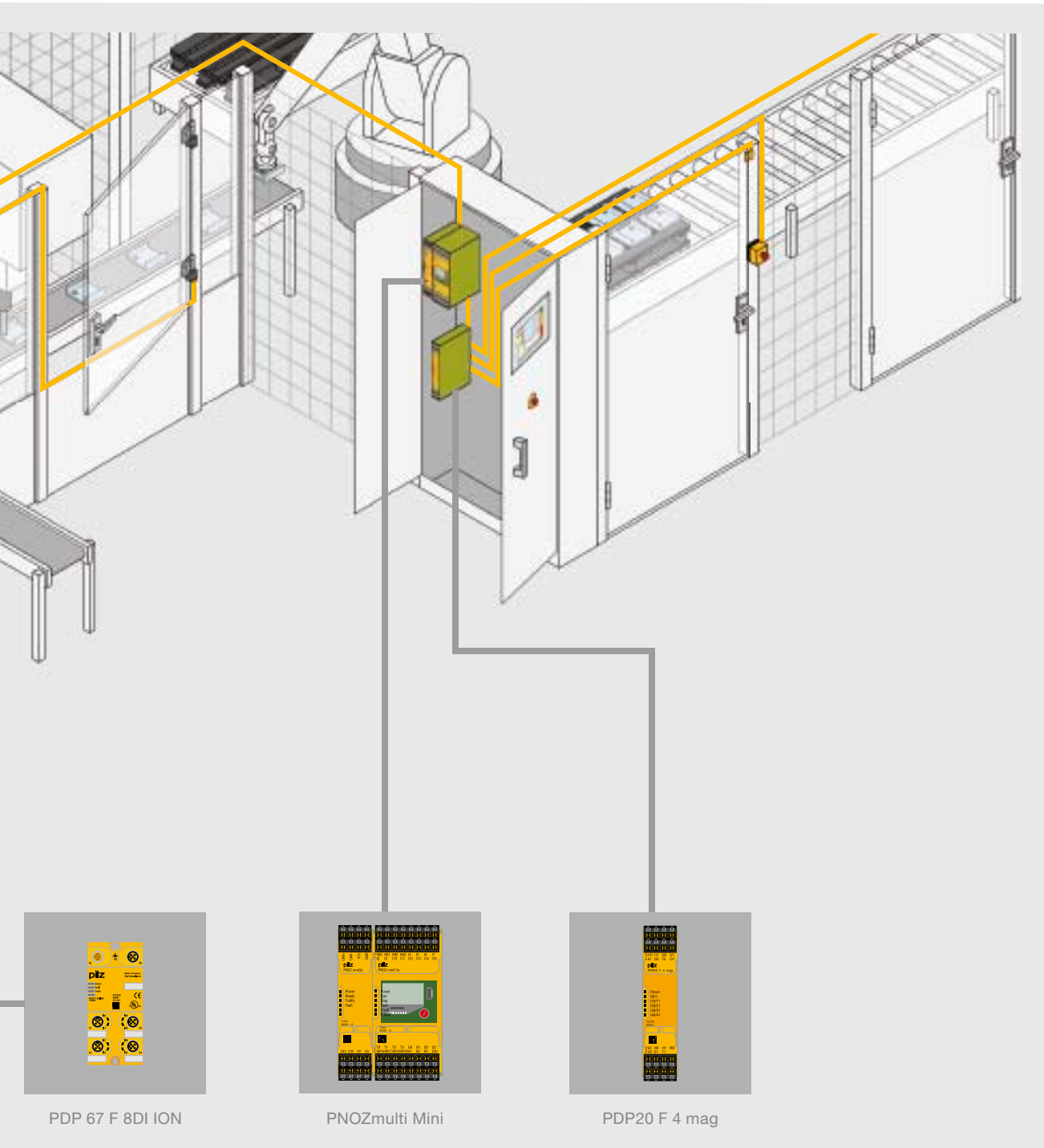


IP20

Protection type IP20 = protection against the ingress of solid foreign matter with a diameter > 12.5 mm, no protection against water

IP67

Protection type IP67 = dust-tight, protection against temporary submersion



► Decentralised modules PDP20

With the interface modules PDP20 Pilz offers solutions for decentralised applications in the field. The interface modules are integrated into small installation boxes close to the sensors that are to be connected. Short signal paths for the sensors and a safe connection to the control cabinet can thus be guaranteed.

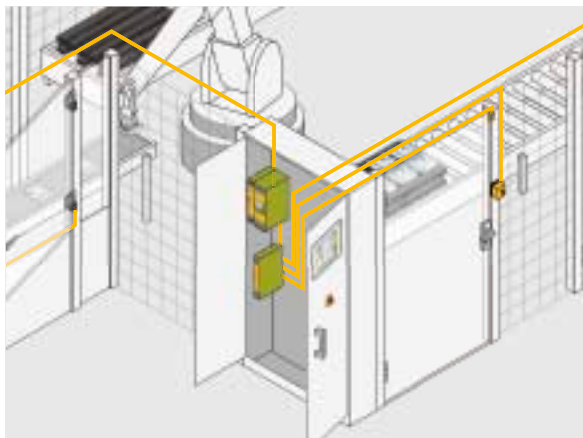


PDP20 F 4 mag

Interface modules for series connection up to PL e

The interface module PDP20 F 4 mag is ideal for series connection of contact-based sensors such as PSENmag up to PL e. The solution therefore conforms to the EN ISO 13849-1 standard. The interface module can be connected to dual-channel evaluation devices (e.g. PNOZsigma, PNOZmulti, PSS, ...). Up to 4 sensors can be connected to each PDP20 module.

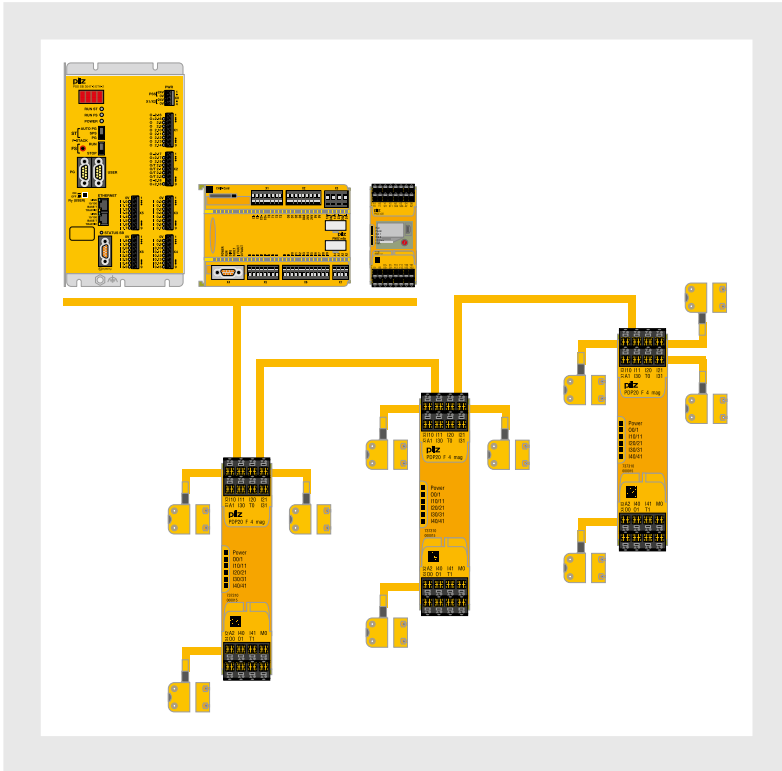
There is also the option of cascading the PDP20 modules. In this case each cascaded module will provide another three sensor interfaces.



IP20

Components for your safe solution

Decentralised module	Evaluation device	Connectable sensors
PDP20 F 4 mag	<ul style="list-style-type: none"> ▶ Safety relays PNOZsigma ▶ Configurable control systems PNOZmulti/PNOZmulti Mini ▶ Programmable control systems PSS 3000 ▶ Control systems PSSuniversal PLC/PSSuniversal multi 	<ul style="list-style-type: none"> ▶ Magnetic safety switch PSENmag ▶ Safe hinge switch PSEnhinge ▶ Safe rope pull switch PSENrope ▶ Control and signal devices PIT (except PITmode)




The interface module can be connected to all dual-channel evaluation devices. The modules are also cascadable.

Your benefits at a glance

- ▶ Solution for series connection in compliance with the standards up to PL e
- ▶ Series connection of contact-based sensors
- ▶ Flexibility for creating your automation architecture, as the PDP20 module can be connected to all dual-channel evaluation devices
- ▶ High level of decentralisation due to the ability to cascade modules
- ▶ Diagnostic information can be called up regarding the switch status of each individual sensor
- ▶ Simple installation by means of proven top hat rail assembly
- ▶ Compact and economical solution for all series connections



Keep up to date with the latest information about the decentralised modules PDP20

 Webcode 8459

Online information at www.pitz.com

► Decentralised modules PDP67

With the PDP67 modules Pilz offers solutions for decentralised applications directly in the field. The modules are resistant to dirt and water in accordance with protection type IP67.



PDP67 F 8 DI ION



PDP67 F 8DI ION HP

Decentralised and passive – decentralised safety

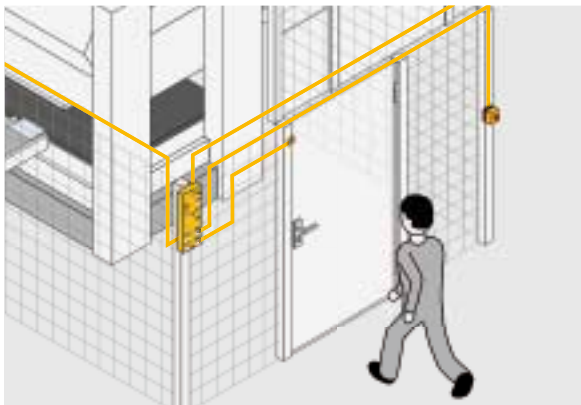
The digital input module PDP67 F 8DI ION forwards the signals of the sensors connected decentralised in the field to various evaluation devices, such as PNOZmulti Mini and PNOZmulti. Up to 64 sensors can be connected.

The passive junction PDP67 F 4 code enables the connection of up to four sensors PSEnslock or PSEnini. In addition to the connection option to the configurable control systems PNOZmulti and PNOZmulti Mini, the safety relays PNOZsigma are also available.

The input module PSS67 forwards signals from sensors connected in the field via the safe bus system SafetyBUS p to evaluation devices with SafetyBUS p interface. As a T-type module, it is particularly suited for enhanced environmental requirements (temperature range from -40 °C to +60 °C).

PDP67 – Economical and safe

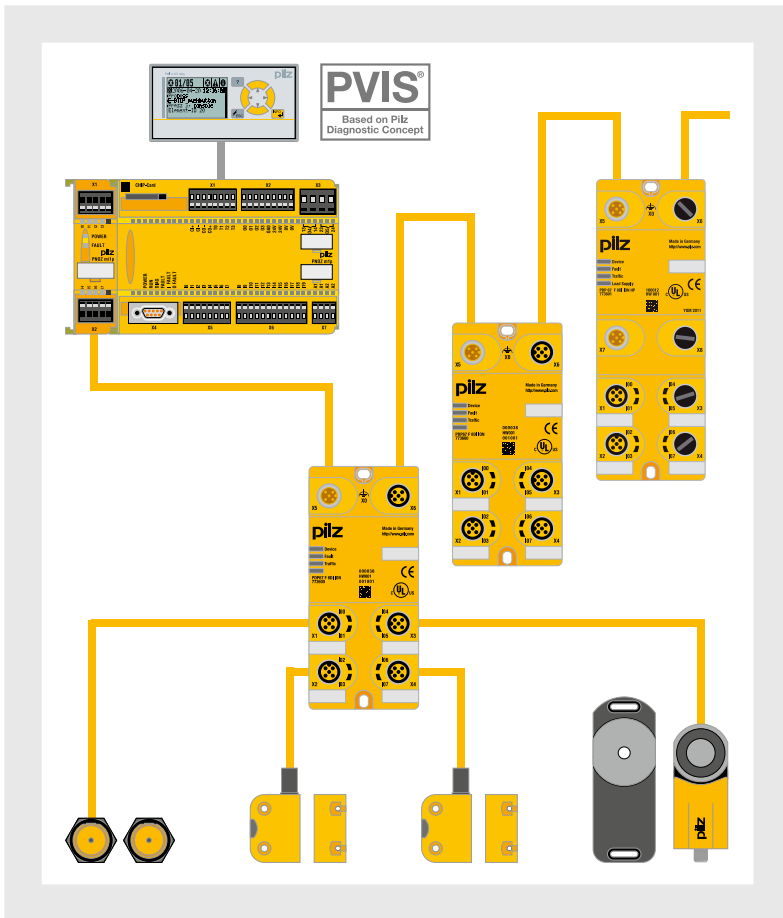
Integrated in dirt and water-repellent IP67 housings, the PDP67 modules can even be used where there are high demands on hygiene. The decentralised modules optimise the installation and wiring effort – saving you time, money and space in the control cabinet. PDP67 modules with stainless steel threads satisfy the requirements of the food industry.



IP67

Components for your safe solution

Decentralised module	Evaluation device	Connectable sensors
PDP67 F 8 DI ION (HP)	Configurable control systems PNOZmulti/PNOZmulti Mini	<ul style="list-style-type: none"> ► Safe sensor technology PSEN (except PSENsgate and PSEnenco) ► Control and signal devices PIT (except PITmode)




Your benefits at a glance

- ▶ Simple installation means less planning, design and installation work
- ▶ Easy to implement a modular machine concept
- ▶ Only one cable for communication and supply, plug and play through M12 connector
- ▶ Simple diagnostics due to a point-to-point connection between the modules (each module can be identified)
- ▶ Diagnostics possible for the individual sensors on the modules

PDP67 F 8 DI ION in combination with PNOZmulti – the input module PDP67 can be connected to the configurable control system PNOZmulti via the link module PNOZ ml2p.



Keep up to date with the latest information about the decentralised modules PDP67

 Webcode 6557

Online information at www.pilz.com

► Selection guide – Decentralised modules PDP20

Selection guide – Modules PDP67/PSS67/PDP20

Common features

Failsafe applications:

- ▶ PL e of EN ISO 13849-1
- ▶ SIL CL 3 of EN/IEC 62061



PDP67 F 8DI ION

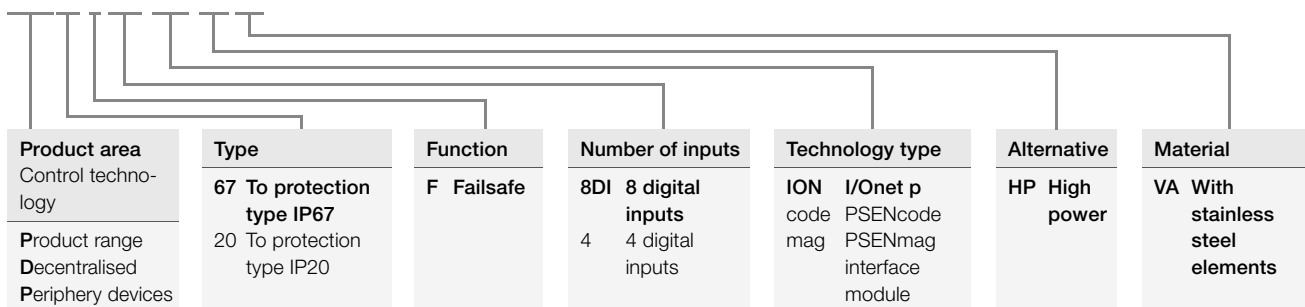


PDP20 F 4 mag

Type	Function
PDP67 F 8DI ION	Decentralised input module for PNOZmulti, PNOZmulti Mini
PDP67 F 8DI ION VA	
PDP67 F 8DI ION HP	Decentralised input module for PNOZmulti, PNOZmulti Mini High power: additional supply voltage for PSENSlock and PSENOpt
PDP67 F 8DI ION HP VA	
PDP67 F 4 code	Passive junction PSENcode
PDP67 F 4 code VA	
PSS67 F 16 DI SB-T	Decentralised input module for SafetyBUS p
PDP20 F 4 mag	Decentralised interface for series connection PSENmag

Type code for decentralised modules PDP20/PDP67


PDP67 F 8DI ION HP VA




and PDP67

Protection type	Electrical data	Order number
IP67	8 digital inputs	773 600
		773 614
IP67	8 digital inputs	773 601
		773 615
IP67	4 digital inputs	773 603
		773 613
IP67	16 digital inputs 4 test pulse outputs 1 SafetyBUS p interface	311 300
IP20	8 digital inputs for connection of 4 sensors	773 310

Keep up to date with the latest information about the decentralised modules
 ▶ PDP67

 Webcode 6557

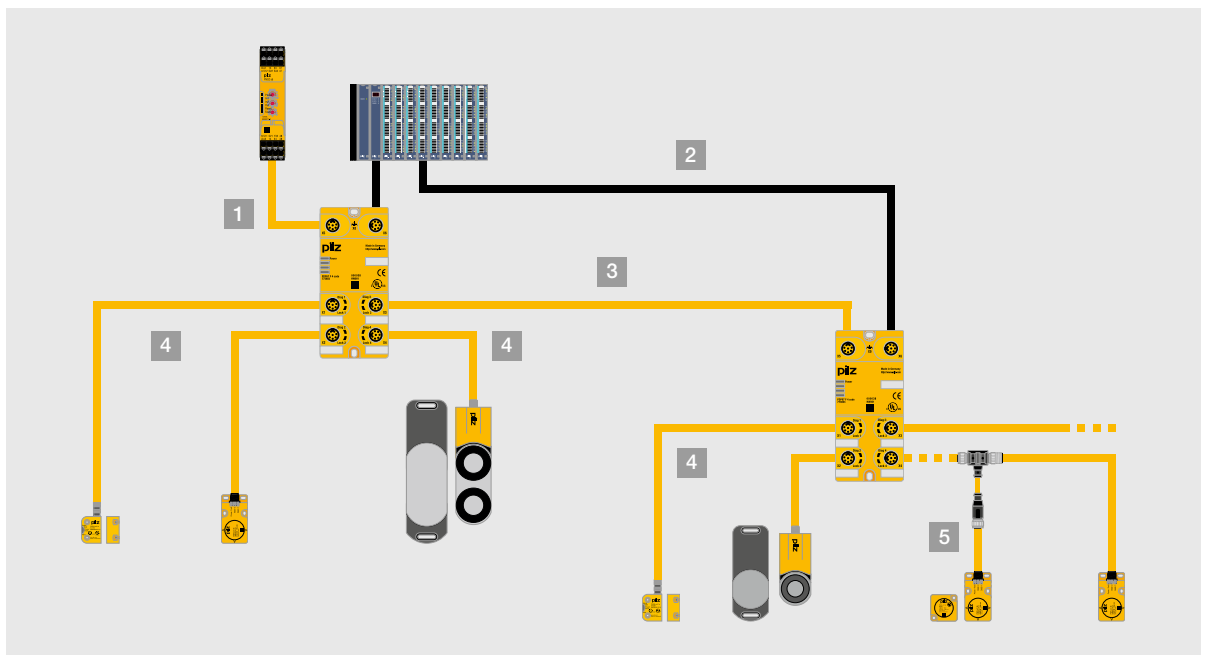
▶ PDP20

 Webcode 8459

Online information at www.pilz.com

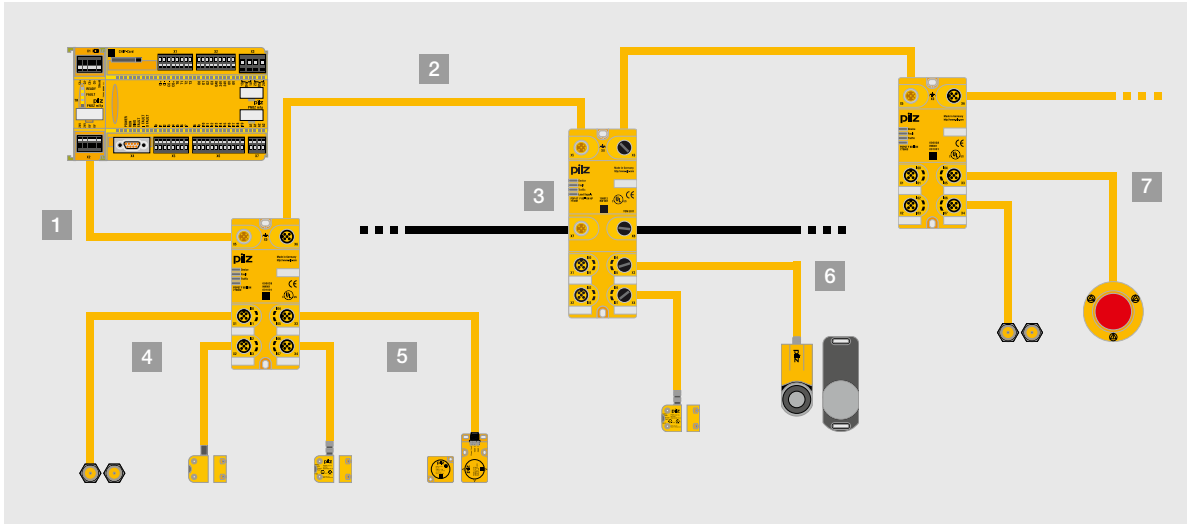
► Cable navigator

The cable navigator helps in the creation of your application. It provides a fast, simple overview of which cable and which adapter can be used to connect to the respective evaluation device and on various sensors.



Cable navigator

Type	Features	Order number					
		2 m	5 m	10 m	20 m	30 m	
1 Connection cable Evaluation device – PDP67 (X5)	PDP67 cable, straight, M12, 8-pin, connector-open end	-	380 700	380 701	380 702	380 703	380 704
2 Connection cable Standard evaluation device – PDP67 (X6)							
3 Connection cable PDP67 (X1-X4) – PDP67 (X5)	PSEN cable, straight, M12, 8-pin, socket-connector	-	540 340	540 341	540 342	540 343	540 344
4 Connection cable PSENcode, PSENslock, PSENiini (X1-X4)							
5 PSEN Y junction/ PSEN T junction	PSEN Y-junction M8-M12/M12 Series connection with M8, 8-pin	540 327	-	-	-	-	-
	PSEN Y-junction M12-M12/M12 Series connection with M12, 8-pin	540 328	-	-	-	-	-
	PSEN T-junction M12 diagnostic connector	540 331	-	-	-	-	-



Cable navigator

Type	Features	Order number					
		3 m	5 m	10 m	20 m	30 m	
1 Connection cable PNOZ ml2p/PNOZ mml2p – PDP67 (X5)	PSEN op cable, straight, M12, 5-pin, socket-open end	-	630 310	630 311	630 312	630 298	630 297
2 Connection cable PDP67 (X6) – PDP67 (X5)	PSS67 cable, straight, M12, 5-pin, socket-connector	-	380 208	380 209	380 210	380 220	380 211
3 Supply cable PDP67 F 8DI ION HP (X7-X8)	X7: PSS67 supply cable, straight, M12, 5-pin, socket-open end, B-coded	-	380 256	380 257	380 258	-	-
	X8 – X7: PSS67 supply cable, straight, M12, 5-pin, socket-connector, B-coded	-	380 250	380 251	380 252	-	-
4 Connection cable PSENmAG (X1-X4)	n-type: PSS67 cable, straight, M12, 5-pin, socket-connector	-	380 208	380 209	380 210	380 220	380 211
	p-type* (M8-4-pin): PSS67 cable, straight, M8, 5-pin, socket, M12, 5-pin, connector		380 200	380 201	380 202	380 203	-
	Adapter PSEN mag adapter	380 300					
5 Connection cable PSENcode (X1-X4)	n-type: PSS67 cable, straight, M12, 5-pin, socket-connector	-	380 208	380 209	380 210	380 220	380 211
	p-type*: PSS67 cable, straight, M12, 5-pin, socket-connector		380 208	380 209	380 210	380 220	380 211
	Adapter PSEN cs adapter	380 301					
6 Connection cable PSENslock (X1-X4)	n-type: PSS67 cable, straight, M12, 5-pin, socket-connector	-	380 208	380 209	380 210	380 220	380 211
	p-type*: PSS67 cable, straight, M12, 5-pin, socket-connector		380 208	380 209	380 210	380 220	380 211
	Adapter PSEN sl adapter	380 325					
7 Connection cable PIT, sensors without M12 connection (X1-X4)	PDP67 cable, straight, M12, 5-pin, connector-open end	-	380 705	380 709	380 706	380 707	380 708

*Adapter required for p-type

► Selection guide – Cable selection for connection

PDP67 F 8DI ION/PDP67 F 8DI ION HP, PSS 67 F 16 DI SB-T – Connection to PSEnmag, PSEnini, PSEncode, PSEN



PSS67 cable M8sf M12sm

Type	Function
PSS67 cable M12sf M12sm	Cable for connection to PSEnmag, PSEnini, PSEncode, PSEnlock, PSEnhinge
PSS67 cable M12af M12am	
PSS67 cable M8sf M12sm	Cable for connection to PSEnmag
PSS67 cable M8af M12sm	

PDP67 F 8DI ION/PDP67 F 8DI ION HP, PSS 67 F 16 DI SB-T – Connection to PSEnmech, PSEnrope



PDP67 cable M12-5sm

PDP67 cable M12-5sm	Cable for connection to PSEnmech and PSEnrope
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PDP67 F 4 code – Connection of PSEnini, PSEncode, PSEnlock

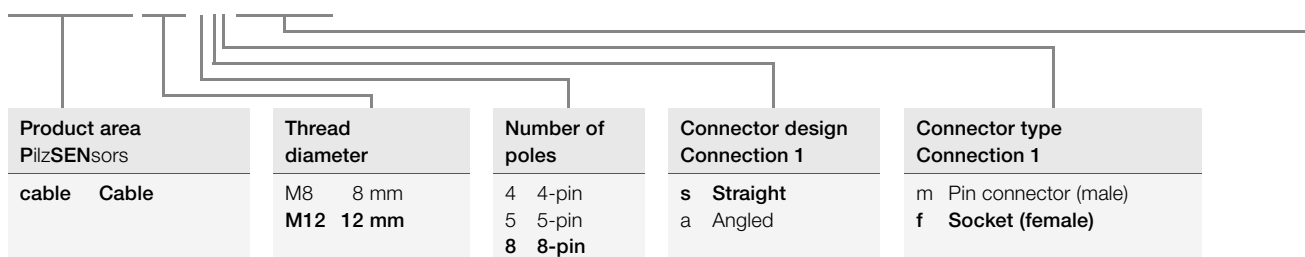


PSEN cable M12-8sf M12-8sm

Type	Function
PSEN cable M12-8sf M12-8sm	Cable for connection to PSEnini, PSEncode, PSEnlock

Type code for cable accessories

PSEN cable M12-8sf M12-8sm



to decentralised modules PDP67

Block, PSENhinge

Features		Order number (by length)				
Connection 1	Connection 2	3 m	5 m	10 m	20 m	30 m
Straight, M12, 5-pin, socket	Straight, M12, 5-pin, connector	380208	380209	380210	380220	380211
Angled, M12, 5-pin, socket	Angled M12, 5-pin, connector	380212	380213	380214	–	380215
Straight, M8, 4-pin, socket	Straight, M12, 5-pin, connector	380200	380201	380202	–	380203
Angled, M8, 4-pin, socket	Angled M12, 5-pin, connector	380204	380205	380206	–	380207


Open cable	Straight, M12, 5-pin	380705	–	380706	380707	380708
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Features		Order number (by length)				
Connection 1	Connection 2	2 m	5 m	10 m	20 m	30 m
Straight, M12, 8-pin, socket	Straight, M12, 8-pin, connector	540340	540341	540342	540343	540344

Connector design and connector type of connector 2

See connection 1

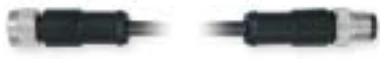
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► Selection guide – Cable selection and other accessories

Supply cable PDP67/PSS67 and SafetyBUSp cable



PSS67 Supply Cable IN sf OUT sm, B

Type	Function
PSS67 Supply Cable IN sf OUT sm, B	Supply cable, B-coded
PSS67 Supply Cable IN af OUT am, B	Supply cable, B-coded
PSS67 Supply Cable IN sf, B	Supply cable, B-coded
PSS67 Supply Cable IN af, B	Supply cable, B-coded
PSS67 SB LC Cable IN sf OUT sm, A	SafetyBUS p cable, A-coded
PSS67 SB LC Cable IN af OUT am, A	SafetyBUS p cable, A-coded
PSS67 SB LC Cable IN sf, A	SafetyBUS p cable, A-coded
PSS67 SB LC Cable IN af, A	SafetyBUS p cable, A-coded

PDP67/PSS67 other accessories



PSEN ma adapter


Type
PSEN ma adapter
PSEN cs adapter
PDP67 connector cs
PDP67 connector cs VA
PSEN sl adapter
PSEN op1.1 adapter
PSEN op1.2 adapter
PSEN opt M12 Transmitter adapter
PSEN op 2H Receiver adapter
PSEN op M12 V1 Receiver adapter
PSEN op M12 V2 Receiver adapter
PSEN T M12

ories for decentralised modules PDP67

Feature	Connection 2	Order number (by length)		
		3 m	5 m	10 m
Straight, socket	Straight, connector	380 250	380 251	380 252
Angled, socket	Angled, connector	380 253	380 254	380 255
Straight, socket	Open	380 256	380 257	380 258
Angled, socket	Open	380 259	380 260	380 261
Straight, socket	Straight, connector	380 500	380 501	380 502
Angled, socket	Angled, connector	380 503	380 504	380 505
Straight, socket	Open	380 506	380 507	380 508
Angled, socket	Open	380 509	380 510	380 511

Function	Order number
Adapter for connection to PSENmog and PSENhinge	380 300
Adapter for connection to PSENcode	380 301
Adapter for connection of PSENcode to PDP67 F 4 code	773 610
Adapter for connection of PSENcode to PDP67 F 4 code	773 612
Adapter for connection to PSENslock	380 325
Adapter for connection to PSEN op1.1 and PSEN op1.3	380 302
Adapter for connection to PSEN op1.2	380 303
Adapter for connection to PSEN op4F-s, PSEN op4H-s, PSEN op4F-m, PSEN op4H-m transmitter	380 304
Adapter for connection to PSEN op2H receiver	380 305
Adapter for connection to PSEN op4F-s, PSEN op4H-s, PSEN op4F-m, PSEN op4H-m receiver	380 306
Adapter for connection to PSEN op2B, PSEN op4F, PSEN op4H, PSEN op4B receiver	380 307
T-Adapter for connection to 2 PSEN	380 350

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In many countries we are represented by sales partners. Please refer to our homepage www.pilz.com for further details or contact our headquarters.

► Support

Technical support is available from Pilz round the clock.

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Pilz develops environmentally-friendly products using ecological materials and energy-saving technologies. Offices and production facilities are ecologically designed, environmentally-aware and energy-saving. So Pilz offers sustainability, plus the security of using energy-efficient products and environmentally-friendly solutions.



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