



Sensor technology PSEN[®], control and signal devices PIT[®]

PILZ
THE SPIRIT OF SAFETY

- ▶ Devices for position monitoring ▶ Safety switches
- ▶ Safety gate systems ▶ Light curtains ▶ Safety laser scanners
- ▶ Safe camera systems ▶ Control and signal devices

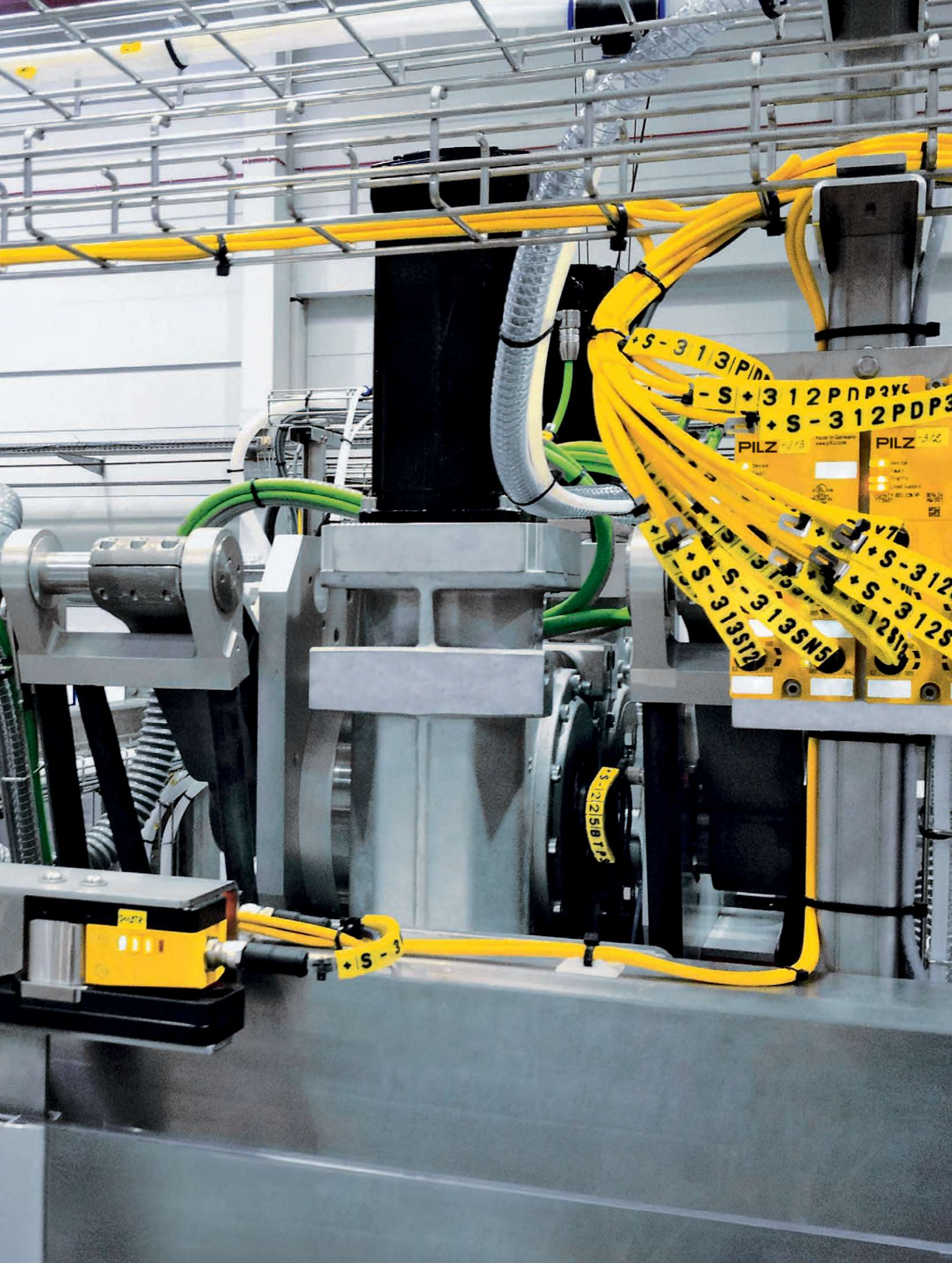


▶ Cable accessories for PSEN sensor technology

We offer not only a comprehensive portfolio of safety sensors, but also a variety of compatible cable accessories and decentralised modules. These make it possible for you to enjoy the expanded functionalities as well as series connection of our Pilz products. Select the appropriate cable accessories to meet your requirements and assemble your own individual system solution.

Decentralised modules PDP67	140
Overview of cable accessories	142
Cables for PSENcode and PSENSlock	144
Cables for PSENmech, PSENrope and PSENmag	148
Cables for PSENhinge	152
Cables for PSENmlock	154
Cables for PSENopt and PSENopt II	156
Cables for PSENopt Advanced	160
Cables for PSENopt slim and PSENscan	162
Cables for PSENVip and cable accessories PSEN	164





► Decentralised modules PDP67

With the PDP67 modules you can achieve a high level of decentralisation. The digital input module PDP67 F 8DI ION forwards signals from the sensors connected decentrally in the field to various evaluation devices, e.g. the configurable safe small controllers PNOZmulti 2. Up to 64 sensors can be connected.



PDP67 F 8DI ION



PDP67 F 4 code

Decentralised and passive – decentralised safety

The passive junction PDP67 F 4 code enables the connection of up to four sensors PSENSlock. As well as the ability to connect to the configurable safe small controllers PNOZmulti 2, the safety relays PNOZsigma are also available.

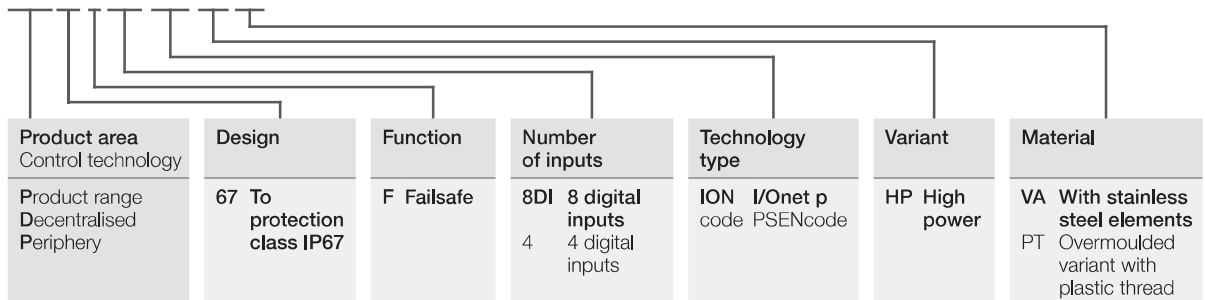
Versatile automation architectures are possible due to the possibility of connection to various evaluation devices.

PDP67 – Economical and safe

Integrated into 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.

Type code for decentralised modules PDP67

PDP67 F 8DI ION HP VA



Keep up-to-date on decentralised modules PDP67:

Webcode:
web150510

Online information at www.pilz.com



PDP67 F 8DI ION PT

**New decentralised input module
PDP67 F 8DI ION PT**

Thanks to an improved manufacturing process, the new decentralised input module is a cost-effective alternative to existing solutions on the market. This new addition to the range of Pilz decentralised field devices allows modular machine concepts to be planned and implemented with ease.

Your benefits at a glance

- ▶ Less planning and design work thanks to simple installation
- ▶ Simple implementation of a modular machine concept
- ▶ Saving space in control cabinet
- ▶ Integrated in dirt and water-repellent housings
- ▶ Can be used for applications with high demands on hygiene

Technical details – modules for alternative connection options for sensors



PDP67 F 8DI ION



PDP67 Connector cs

Type	Features	Safety	Certification	Order number
PDP67 F 8DI ION	Decentralised input module for the configurable safe small controllers PNOZmulti 2	<ul style="list-style-type: none"> ▶ PL e of EN ISO 13849-1 ▶ SIL CL 3 of EN/IEC 62061 	DGUV, TÜV, UL	773 600
PDP67 F 8DI ION VA			DGUV, TÜV, UL	773 614
PDP67 F 8DI ION PT			DGUV, TÜV ¹⁾	773 616
PDP67 F 8DI ION HP	Decentralised input module for <ul style="list-style-type: none"> ▶ Configurable safe small controllers PNOZmulti 2 ▶ High power ▶ Additional supply voltage for PSENSlock and PSENopt 		DGUV, TÜV, UL	773 601
PDP67 F 8DI ION HP VA			DGUV, TÜV, UL	773 615
PDP67 F 4 code	Passive junction PSENcode		UL	773 603
PDP67 F 4 code VA			UL	773 613
PDP67 Connector cs	Adapter for connection cable to the evaluation device	-	-	773 610
PDP67 Connector cs VA			-	773 612

¹⁾ Product labelling for the North American market is currently in preparation

► Cable accessories for sensor technology PSEN®

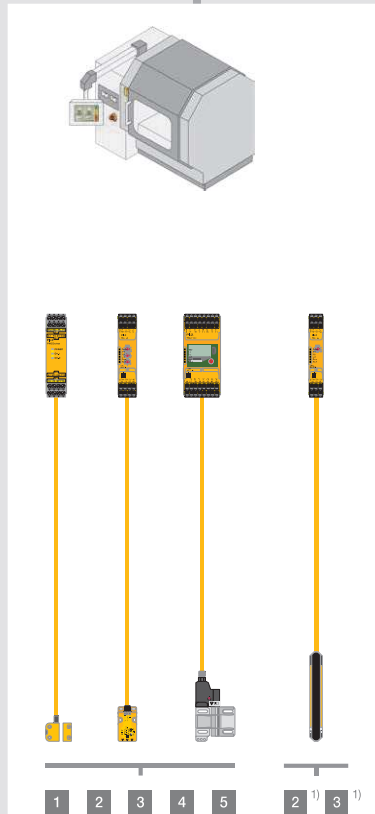
Safe, complete solutions

The sensor technology PSEN product area includes an extensive portfolio of accessories in addition to devices for position monitoring, safety switches, safety gate systems, light curtains and safe camera systems.

Pilz products can be connected in series and are compatible with products and interfaces from other manufacturers. They fit perfectly into your plant environment and also enable Pilz components to be retrofitted to your plant.

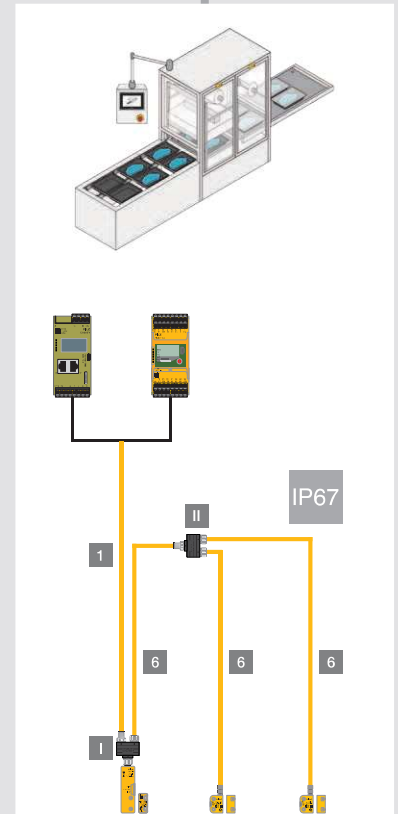
Select the appropriate accessories to meet your requirements and assemble your own individual system solution.

Sensor technology PSEN connected directly



¹⁾ Also available as a shielded version

Sensor technology PSEN with integrated option for series connection and M8, 8-pin connection



1 M8, 8-pin, socket, straight/angled, open-ended (pages 144, 148)

2 M12, 8-pin, socket, straight/angled, open-ended (pages 144, 148, 156)

3 M12, 5-pin, socket, straight/angled, open-ended (pages 144, 148, 152, 156)

4 M8, 4-pin, socket, straight/angled, open-ended (page 148)

5 M12, 4-pin, socket, straight, open-ended (pages 152, 156)

6 M8, 8-pin, socket, plug, straight (page 144)

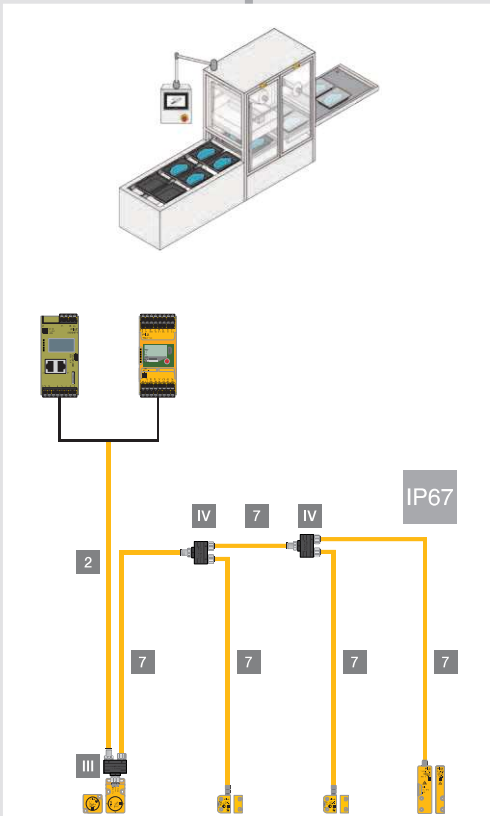
Type code for cable accessories

PSEN cable M8-8sf

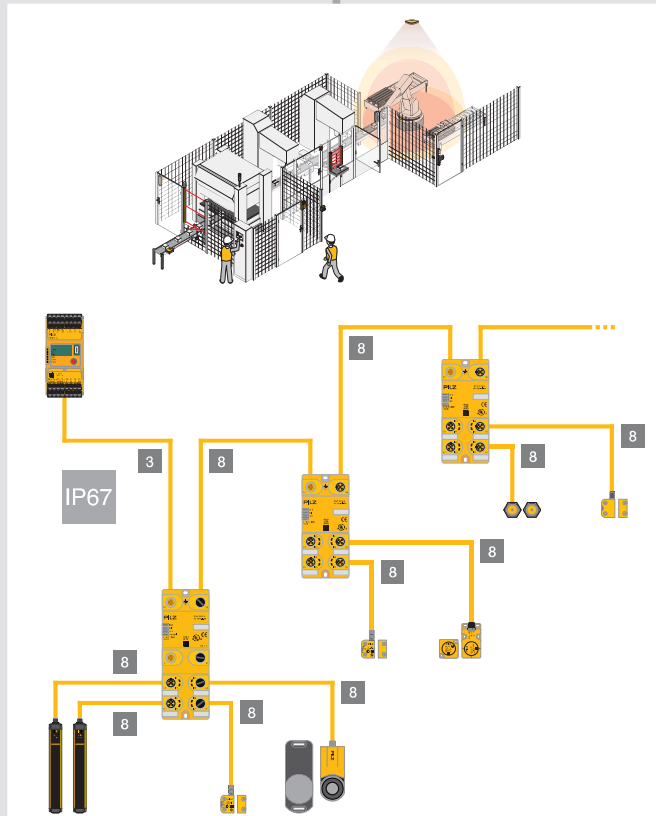
Product area Pilz SENSors	Thread diameter	Number of pins	Connector design	Connector type
Cable	M8 8 mm M12 12 mm	4 4-pin 5 5-pin 8 8-pin	s Straight a Angled	m Pin connector (male) f Socket (female)

Sensor technology PSEN with integrated option for series connection and M12, 8-pin connection

Sensor technology PSEN with M12, 5-pin connector (n-type) for PDP67 F 8DI ION and PNOZmulti 2



For connecting to the PDP67 F4 code: 7 12



For the connection of p-type sensors, the respective adapters are also required: 9 10 11

- 7 M12, 8-pin, socket, plug, straight (pages 144, 146)
- 8 M12, 5-pin, socket, plug, straight/angled (pages 146, 150, 152, 158)

- 9 PSEN ma adapter (pages 150, 152)
- 10 PSEN cs adapter (page 146)
- 11 PSEN sl adapter (page 146)
- 12 PSS67/PDP67 cable M12-8sm (page 146)

- I PSEN Y junction M8 SENSOR (page 144)
- II PSEN Y junction M8 cable channel (page 144)
- III PSEN Y junction M12 SENSOR (page 144)
- IV PSEN Y junction M12 cable channel (page 144)



▶ Selection guide – Cable for PSEncode and PSEnlock



PSEncode



PSEnlock

PSEncode and PSEnlock – cable selection for connection to any evaluation device



PSEN cable M8-8sf

Type	Description	Cable drag chain capability
1 PSEN cable M8-8sf	Cable for connection to any evaluation device	-
2 PSEN cable M12-8sf		◆
2 PSEN cable M12-8af		◆
3 PSEN cable M12-5sf		-
3 PSEN cable M12-5af		-

PSEncode and PSEnlock – cable selection for series connection



PSEN Y junction M8-M12/M12 PIGTAIL



PSEN cable M8-8sf M8-8sm



PSEN Y junction M12 cable channel



PSEN Y junction M8 SENSOR

Type	Description
PSEN Y junction M8-M12/M12 PIGTAIL	Y-connector with pigtail
PSEN Y junction M12-M12/M12 PIGTAIL	Y-connector with pigtail
PSEN T junction M12	Diagnostic connector
6 PSEN cable M8-8sf M8-8sm	Extension cable
6 PSEN cable M8-8sf M8-8sm	Extension cable
6 PSEN cable M8-8sf M8-8sm	Extension cable
7 PSEN cable M12-8sf M12-8sm	Cable
III PSEN Y junction M12 SENSOR	Y-connector
IV PSEN Y junction M12 cable channel	Y-connector
I PSEN Y junction M8 SENSOR	Y-connector
II PSEN Y junction M8 cable channel	Y-connector
PSEN converter M8-8sf- M12-8sm	Adapter
PSEN ix2 F4 code	Multiple interface IP20
PSEN ix2 F8 code	Multiple interface IP20

slock

PSEncode

PSEnslock



Features	Certification	Order number (by length)					
		2 m	3 m	5 m	10 m	20 m	30 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M8, 8-pin, socket ▶ Connection 2: open cable 	UL	533 150	-	533 151	533 152	533 153	533 154
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 8-pin, socket ▶ Connection 2: open cable 	UL	-	540 319	540 320	540 321	540 333	540 326
<ul style="list-style-type: none"> ▶ Connection 1: angled, M12, 8-pin, socket ▶ Connection 2: open cable 	UL	-	540 322	540 323	540 324	-	540 325
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 5-pin, socket ▶ Connection 2: open cable 	UL	-	630 310	630 311	630 312	630 298	630 297
<ul style="list-style-type: none"> ▶ Connection 1: angled, M12, 5-pin, socket ▶ Connection 2: open cable 	UL	-	630 347	630 348	630 349	-	630 350

Features	Order number
Y-connector for PSEncode; input socket in M8, 8-pin and output plug (2 x) in M12, 8-pin	540 337
Y-connector for PSEncode; input socket and output plug (2 x) in M12, 8-pin	540 338
<ul style="list-style-type: none"> ▶ When not using Safety Device Diagnostics ▶ PSEncode, PSEnslock: Signal output ▶ PSEnslock: Lock signal 	540 331
0.5 m, straight, M8, 8-pin, socket/plug	533 155
1 m, straight, M8, 8-pin, socket/plug	533 156
2 m, straight, M8, 8-pin, socket/plug	533 157
5 m (see table below for additional cable lengths)	540 341
Y-connector for PSEncode for direct connection to sensor; input socket, output socket and output plug in M12, 8-pin	540 315
Y-connector for PSEncode for cable outlet in the cable duct; input plug and output sockets in M12, 8-pin	540 316
Y-connector for PSEncode for direct connection to sensor; input socket, output socket and output plug in M8, 8-pin	540 317
Y-connector for PSEncode for cable outlet in the cable duct; input plug and output sockets in M8, 8-pin	540 318
Converter-adapter for PSEN with M8, 8-pin to M12, 8-pin	540 329
For up to 4 sensors	535 111
For up to 8 sensors	535 112

▶ Selection guide – Cable for PSENcode and PSEN



PSENcode



PSENslock

PSENcode and PSENslock – cable selection for connection to PDP67 F 4 code



PSEN cable M12-8sf



PDP67 F 4 code

Type	Description	Cable drag chain capability
7 PSEN cable M12-8sf M12-8sm	Cable for connection to PDP67 F 4 code	◆
12 PSS67/PDP67 cable M12-8sm	Cable for connection to any evaluation device	◆

Type	Description
PDP67 F 4 code	Passive junction for PSENcode
PSEN converter M8-8sf- M12-8sm	Adapter

PSENcode and PSENslock – cable selection for connection to PDP67 F 8DI ION/PSS67



PSS67/PDP67 cable M12-5sf



PDP67 F 8DI ION PT

Type	Description	Cable drag chain capability
8 PSS67/PDP67 cable M12-5sf M12-5sm	Cable for connection to PDP67 F 8DI ION/PSS67	-
8 PSS67/PDP67 cable M12-5af M12-5am		-

Type	Description
PDP67 F 8DI ION PT	Sensor junction box for decentralised periphery PNOZmulti
PDP67 F 8DI ION VA	Sensor junction box for decentralised periphery PNOZmulti with M12 thread in stainless steel

Type	Description
8 PDP67 cable M12-5sf M12-5sm	Extension cable
10 PSEN cs adapter	Adapter for connecting a PSEN cs to PSS67 and PDP67
11 PSEN sl adapter	Adapter for connecting an 8-pin PSENslock to a PDP67 with M12, 5-pin connections

stock

Features	Certification	Order number (by length)				
		2 m	5 m	10 m	20 m	30 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 8-pin, socket ▶ Connection 2: Straight, M12, 8-pin, plug 	UL	540340	540341	540342	540343	540344
<ul style="list-style-type: none"> ▶ Connection 1: Straight, M12, 8-pin, plug ▶ Connection 2: open cable 	UL	380700	380701	380702	380703	380704



Features	Certification	Order number
<ul style="list-style-type: none"> ▶ Multiple interface PDP67, protection type IP67 ▶ Series connection up to PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061 	UL	773603
Converter-adaptor for PSEN with M8, 8-pin to M12, 8-pin	UL	540329

Features	Certification	Order number (by length)				
		3 m	5 m	10 m	20 m	30 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 5-pin, socket ▶ Connection 2: Straight, M12, 5-pin, plug 	UL	380208	380209	380210	380220	380211
<ul style="list-style-type: none"> ▶ Connection 1: Angled, M12, 5-pin, socket ▶ Connection 2: Angled, M12, 5-pin, plug 	UL	380212	380213	380214	-	380215

Features	Certification	Order number
Multiple interface PDP67, protection type IP67, PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061	DGUV, TÜV, UL	773616
Multiple interface PDP67, protection type IP67, PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061	DGUV, TÜV, UL	773614

Features	Certification	Order number
0.5 m, straight, 5-pin, socket/plug	UL	380710
1 m, straight, 5-pin, plug/socket	UL	380712
1.5 m, straight, 5-pin, plug/socket	UL	380711
2 m, straight, 5-pin, plug/socket	UL	380713
0.10 m: ▶ Connection 1: M12, 8-pin, female connector, straight ▶ Connection 2: M12, 5-pin, male connector, straight	-	380301
0.10 m: ▶ Connection 1: M12, 8-pin, female connector, straight ▶ Connection 2: M12, 5-pin, male connector, straight	-	380325

► Selection guide – Cable for PSENmech, PSENrope



PSENmech



PSENrope



PSENmag



PSENmag

PSENmech and PSENrope – cable selection for connection to PDP67 F 8DI ION/PSS67



PSS67/PDP67 cable



PDP67 F 8DI ION PT

Type	Description	Cable drag chain capability
PSS67/PDP67 cable	Cable for connection to PDP67 F 8DI ION/PSS67	-

Type	Description
PDP67 F 8DI ION PT	Sensor junction box for decentralised periphery PNOZmulti

PSENmag – cable selection for connection to any evaluation device



PSEN cable M8-4sf



PSEN cable M8-8af

Type	Description	Cable drag chain capability
4 PSEN cable M8-4sf	Cable for connection to any evaluation device	◆
4 PSEN cable M8-4af		◆
1 PSEN cable M8-8sf		-
1 PSEN cable M8-8af		-
2 PSEN cable M12-8sf		◆
2 PSEN cable M12-8af		◆
3 PSEN cable M12-5sf		-

PSENmag – accessory selection for series connection



PSEN ix1

Type	Description
PSEN ix1	Multiple interface (PSEN 1 series), protection type IP20
PSEN i1	Multiple interface (PSEN 2 series), protection type IP20

and PSENmag

Features	Certification	Order number (by length)				
		3 m	5 m	10 m	20 m	30 m
<ul style="list-style-type: none"> ▶ Connection 1: open cable ▶ Connection 2: straight, M12, 5-pin, plug 	UL	380 705	380 709	380 706	380 707	380 708

Features	Certification	Order number
Multiple interface PDP67, protection type IP67, PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061	DGUV, TÜV, UL	773616



PSENmech

PSENtrope

PSENmag

Features	Certification	Order number (by length)					
		2 m	3 m	5 m	10 m	20 m	30 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M8, 4-pin, socket ▶ Connection 2: open cable 	UL	533 111	-	533 121	533 131	-	533 141
<ul style="list-style-type: none"> ▶ Connection 1: angled, M8, 4-pin, socket ▶ Connection 2: open cable 	UL	533 110	-	533 120	533 130	-	533 140
<ul style="list-style-type: none"> ▶ Connection 1: straight, M8, 8-pin, socket ▶ Connection 2: open cable 	UL	533 150	-	533 151	533 152	533 153	533 154
<ul style="list-style-type: none"> ▶ Connection 1: angled, M8, 8-pin, socket ▶ Connection 2: open cable 	-	-	-	-	533 162	-	-
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 8-pin, socket ▶ Connection 2: open cable 	UL	-	540 319	540 320	540 321	540 333	540 326
<ul style="list-style-type: none"> ▶ Connection 1: angled, M12, 8-pin, socket ▶ Connection 2: open cable 	UL	-	540 322	540 323	540 324	-	540 325
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 5-pin, socket ▶ Connection 2: open cable 	UL	-	630 310	630 311	630 312	630 298	630 297

Features	Certification	Order number
<ul style="list-style-type: none"> ▶ Series connection up to PL c of EN ISO 13849-1, SIL CL 1 of EN/IEC 62061 ▶ Can be used for connection to: PNOZsigma, PNOZpower, PNOZ X, PNOZmulti, PSS 	UL	535 120
<ul style="list-style-type: none"> ▶ Series connection up to PL c of EN ISO 13849-1, SIL CL 1 of EN/IEC 62061 ▶ Can be used for connection to: PNOZelog, PNOZmulti, PSS 	UL	535 110

► Selection guide – Cable for PSENmag



PSENmag



PSENmag



PSS67/PDP67 cable M12-5sf



PDP67 F 8DI ION PT

PSENmag – cable selection for connection to PDP67 F 8DI ION/PSS67

Type	Description	Cable drag chain capability
8 PSS67/PDP67 cable M12-5sf M12-5sm	Cable for connection to PDP67 F 8DI ION/PSS67	-
8 PSS67/PDP67 cable M12-5af M12-5am		-
PSS67/PDP67 cable M8-4sf M12-5sm ¹⁾		◆
PSS67/PDP67 cable M8-4af M12-5am ¹⁾		◆

¹⁾ in addition, adapter 9 is required

Type	Description
9 PSEN ma adapter	Adapter for connecting a PSENmag to PSS67 and PDP67

Type	Description
PDP67 F 8DI ION PT	Sensor junction box for decentralised periphery PNOZmulti

PSENmag – cable selection for connection to any evaluation device



PSS67/PDP67 cable M12-5sf

Type	Description	Cable drag chain capability
PSEN cable M12-5sf/ M12-5sm VA	Connection cable of a 5-pin sensor with the PDP67 F 8DI ION VA	◆
PSEN cable M12-5sf VA	Cable for connection to any evaluation device	◆
PSEN cable M12-8sf VA	Cable for connection to any evaluation device	◆

Features	Certification	Order number (by length)				
		3 m	5 m	10 m	20 m	30 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 5-pin, socket ▶ Connection 2: straight, M12, 5-pin, plug 	UL	380208	380209	380210	380220	380211
<ul style="list-style-type: none"> ▶ Connection 1: angled, M12, 5-pin, socket ▶ Connection 2: angled, M12, 5-pin, plug 	UL	380212	380213	380214	-	380215
<ul style="list-style-type: none"> ▶ Connection 1: straight, M8, 4-pin, socket ▶ Connection 2: straight, M12, 4-pin, plug 	UL	380200	380201	380202	-	380203
<ul style="list-style-type: none"> ▶ Connection 1: angled, M8, 4-pin, socket ▶ Connection 2: straight, M12, 4-pin, plug 	UL	380204	380205	380206	-	380207



Features	Certification	Order number
0,10 m: <ul style="list-style-type: none"> ▶ Connection 1: M12, 4-pin, female connector, straight ▶ Connection 2: M12, 5-pin, male connector, straight 	-	380300

Features	Certification	Order number
Multiple interface PDP67, protection type IP67, PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061	DGUV, TÜV, UL	773616

Features	Certification	Order number (by length)	
		5 m	10 m
<ul style="list-style-type: none"> ▶ Connection 1: Straight, M12, 5-pin, plug ▶ Connection 2: straight, M12, 5-pin, socket ▶ Threaded ring made of stainless steel, IP69K, temperature: -5 °C ... 105 °C 	UL, ECOLAB	533 180	533 181
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 5-pin, socket ▶ Connection 2: open cable ▶ Threaded ring made of stainless steel, IP69K, temperature: -5 °C ... 105 °C 	UL, ECOLAB	533 170	533 171
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 8-pin, socket ▶ Connection 2: open cable ▶ Threaded ring made of stainless steel, IP69K, temperature: -5 °C ... 105 °C 	UL, ECOLAB	533 190	533 191

► Selection guide – Cable for PSEnhinge



PSEnhinge

PSEnhinge – cable selection for connection to any evaluation device



PSEN cable M12-4sf

Type	Description	Cable drag chain capability
5 PSEN cable M12-4sf	Cable for connection to any evaluation device	-
3 PSEN cable M12-5sf		-
3 PSEN cable M12-5af		-

PSEnhinge – cable selection for connection to PDP67 F 8DI ION/PSS67



PSS67/PDP67 cable M12-5sf



PDP67 F 8DI ION PT

Type	Description	Cable drag chain capability
8 PSS67/PDP67 cable M12-5sf M12-5sm ¹⁾	Cable for connection to PDP67 F 8DI ION/PSS67	-
8 PSS67/PDP67 cable M12-5af M12-5am ¹⁾		-

¹⁾ in addition, adapter 9 is required

Type	Description
9 PSEN ma adapter	Adapter for connecting a PSEnmag or PSEnhinge to PSS67 and PDP67

Type	Description
PDP67 F 8DI ION PT	Sensor junction box for decentralised periphery PNOZmulti

PSEnhinge

Features	Certification	Order number (by length)				
		3 m	5 m	10 m	20 m	30 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 4-pin, socket ▶ Connection 2: open cable 	UL	630300	630301	630302	-	630296
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 5-pin, socket ▶ Connection 2: open cable 	UL	630310	630311	630312	630298	630297
<ul style="list-style-type: none"> ▶ Connection 1: angled, M12, 5-pin, socket ▶ Connection 2: open cable 	UL	630347	630348	630349	-	630350



Features	Certification	Order number (by length)				
		3 m	5 m	10 m	20 m	30 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 5-pin, socket ▶ Connection 2: straight, M12, 5-pin, plug 	UL	380208	380209	380210	380220	380211
<ul style="list-style-type: none"> ▶ Connection 1: angled, M12, 5-pin, socket ▶ Connection 2: angled, M12, 5-pin, plug 	UL	380212	380213	380214	-	380215

Features	Certification	Order number
0.10 m: <ul style="list-style-type: none"> ▶ Connection 1: M12, 4-pin, female connector, straight ▶ Connection 2: M12, 5-pin, male connector, straight 	-	380300

Features	Certification	Order number
Multiple interface PDP67, protection type IP67, PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061	DGUV, TÜV, UL	773616

► Selection guide – Cable for PSENmlock



PSENmlock

PSENmlock – cable selection for connection to any evaluation device



PSEN cable M12-12sf

Type	Description	Cable drag chain capability
PSEN cable M12-12sf	Cable for connection to any evaluation device	-

PSENmlock – cable selection for series connection



PSEN cable M12-12sf

Type	Description	Cable drag chain capability
PSEN cable M12-12sf/ M12-12sm	Connection cable, e.g. for series connection of PSENmlock	-

PSENmlock – adapter selection for series connection



PSEN ml Y junction M12



PSEN ml end adapter

Type	Description
PSEN ml Y junction M12	Y-adapter for PSENmlock series connection
PSEN ml/PSEncs Y junction M12	Y-adapter for looping in a PSENcode in a PSENmlock series connection
PSEN ml end adapter	I-adapter, adapter for PSENmlock series connection, last adapter with the use of a 12-pin PSENmlock as the last sensor in the chain



Features	Certification	Order number (by length)						
		2 m	3 m	5 m	10 m	20 m	30 m	50 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 12-pin, socket ▶ Connection 2: open cable ▶ Cross section: 0.25 mm² ▶ Rated current: 2 A 	UL	570350	570351	570352	570353	570354	570355	570356

Features	Certification	Order number (by length)					
		1 m	2 m	3 m	5 m	10 m	20 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 12-pin, socket ▶ Connection 2: straight, M12, 12-pin, plug ▶ Cross section: 0.25 mm² ▶ Rated current: 2 A 	UL	570357	570358	570359	570360	570361	570362

Features	Certification	Order number
<ul style="list-style-type: none"> ▶ Connector X1: M12, 8-pin male connector ▶ Connector X2: M12, 8-pin, female connector ▶ Connector X3: M12, 12-pin, female connector 	-	570486
<ul style="list-style-type: none"> ▶ Connector X1: M12, 8-pin, female connector ▶ Connector X2: M12, 8-pin male connector ▶ Connector X3: M12, 8-pin, female connector 	-	570489
<ul style="list-style-type: none"> ▶ Connector X1: M12, 12-pin, female connector ▶ Connector X2: M12, 8-pin male connector 	-	570487

► Selection guide – Cable for PSENopt and PSENopt II



PSENopt



PSENopt



PSENopt II

PSENopt and PSENopt II – cable selection for connection to any evaluation device



PSEN op cable M12-4sf



PSEN op cable M12-5af

Type	Description	Cable drag chain capability
5 PSEN op cable M12-4sf	Cable for Type 2 and Type 4 light curtain and single-beam safety light barrier for connection to any evaluation device	-
5 PSEN op cable M12-4af		-
3 PSEN op cable M12-5sf	Cable for Type 2, Type 3 and Type 4 light curtains for connection to any evaluation device	-
3 PSEN op cable M12-5af		-
2 PSEN op cable M12-8sf	Cable for Type 2 (body protection) and Type 4 light curtains for connection to any evaluation device	◆
2 PSEN op cable M12-8af		◆
PSEN op cable M12-4sf shielded	Cable for Type 2 and Type 4 light curtains for connection to any evaluation device	-
PSEN op cable M12-4af shielded		-
PSEN op cable M12-8sf shielded	Cable for Type 4 light curtain, for connection to any evaluation device	-
PSEN op cable M12-8af shielded		-

Features	Certification	Order number (by length)					
		3 m	5 m	10 m	20 m	30 m	50 m
<ul style="list-style-type: none"> ▶ Connection 1: unshielded, straight, M12, 4-pin, socket ▶ Connection 2: open cable 	UL	630300	630301	630302	-	630296	630362
<ul style="list-style-type: none"> ▶ Connection 1: unshielded, angled, M12, 4-pin, socket ▶ Connection 2: open cable 	UL	630341	630342	630343	-	630344	630363
<ul style="list-style-type: none"> ▶ Connection 1: unshielded, straight, M12, 5-pin, socket ▶ Connection 2: open cable 	UL	630310	630311	630312	630298	630297	630364
<ul style="list-style-type: none"> ▶ Connection 1: unshielded, angled, M12, 5-pin, socket ▶ Connection 2: open cable 	UL	630347	630348	630349	-	630350	630365
<ul style="list-style-type: none"> ▶ Connection 1: unshielded, straight, M12, 8-pin, socket ▶ Connection 2: open cable 	UL	540319	540320	540321	540333	540326	-
<ul style="list-style-type: none"> ▶ Connection 1: unshielded, angled, M12, 8-pin, socket ▶ Connection 2: open cable 	UL	540322	540323	540324	-	540325	-
<ul style="list-style-type: none"> ▶ Connection 1: shielded, straight, M12, 4-pin, socket ▶ Connection 2: open cable 	UL	630303	630304	630305	-	630309	630366
<ul style="list-style-type: none"> ▶ Connection 1: shielded, angled, M12, 4-pin, socket ▶ Connection 2: open cable 	UL	630306	630307	630308	-	630319	630367
<ul style="list-style-type: none"> ▶ Connection 1: shielded, straight, M12, 8-pin, socket ▶ Connection 2: open cable 	UL	630313	630314	630315	-	630328	630368
<ul style="list-style-type: none"> ▶ Connection 1: shielded, angled, M12, 8-pin, socket ▶ Connection 2: open cable 	UL	630316	630317	630318	-	630329	630369



► Selection guide – Cable for PSENopt and PSENopt II



PSENopt



PSENopt



PSENopt II

PSENopt and PSENopt II – cable selection for connection to PDP67 F 8DI ION/PSS67



PSS67/PDP67 cable M12-5sf



PDP67 F 8DI ION PT

Type	Description	Cable drag chain capability
8 PSS67/PDP67 cable M12-5sf M12-5sm	► Cable for connection to PDP67 F 8DI ION/PSS67	-
8 PSS67/PDP67 cable M12-5af M12-5am	► An additional adapter is required for 8-pin receiver (380.326)	-

Type	Description
PSENopt 4F/H Receiver adapter	Adapter for connecting the receivers of the basic light curtains PSENopt4F.../1 and PSENopt4H.../1 to PDP67, cable length 0,1 m

Type	Description
PDP67 F 8DI ION PT	Sensor junction box for decentralised periphery PNOZmulti
PDP67 F 8DI ION HP	Decentralised input module for PNOZmulti

PSENopt – accessory selection for cascable light curtains



PSENopt cable M12-4sf shielded



PSENopt cableset M12-4sf shielded

Type	Description	Cable drag chain capability
PSENopt cable axial M12-5sf shielded	Cable for cascading	-
PSENopt cable M12-4sf shielded	Cable for L-muting	-
PSENopt cableset M12-4sf shielded	Y-cable for T-muting	-

Features	Certification	Order number (by length)				
		3 m	5 m	10 m	20 m	30 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 5-pin, socket ▶ Connection 2: straight, M12, 5-pin, plug 	UL	380208	380209	380210	380220	380211
<ul style="list-style-type: none"> ▶ Connection 1: angled, M12, 5-pin, socket ▶ Connection 2: angled, M12, 5-pin, plug 	UL	380212	380213	380214	-	380215



Features	Certification	Order number
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 8-pin, socket ▶ Connection 2: straight, M12, 5-pin, plug 	UL	380326

Features	Certification	Order number
Multiple interface PDP67, protection type IP67, PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061	DGUV, TÜV, UL	773616
Multiple interface PDP67, protection type IP67, PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061, High Power: additional supply voltage	DGUV, TÜV, UL	773601

Features	Order number (by length)		
	0.5 m	0.75 m	1 m
<ul style="list-style-type: none"> ▶ Connection 1: shielded, straight, M12, 5-pin, socket ▶ Connection 2: shielded, straight, M12, 5-pin, socket 	630280	-	630281
<ul style="list-style-type: none"> ▶ Connection 1: shielded, straight, M12, 4-pin, socket ▶ Connection 2: shielded, angled, M12, 4-pin, socket 	-	630282	-
<ul style="list-style-type: none"> ▶ Connection 1: shielded, straight, M12, 4-pin, socket ▶ Connection 2: 2 x shielded, angled, M12, 4-pin, socket 	630295	-	-

► Selection guide – Cable for PSENopt Advanced



PSENopt Advanced



PSEN op cable axial M12 12-pole

PSENopt Advanced – cable selection for connection to any evaluation device

Type	Description	Cable drag chain capability
PSEN op cable axial M12 12-pin	Cable for light curtains PSENopt Advanced for connection to any evaluation device	◆
PSEN op cable M12-5sf	Cable for light curtains PSENopt Advanced for connection to any evaluation device	-

Note: The PSENmlock cables can also be used to connect PSENopt Advanced (see page 154).

PSENopt Advanced – cable selection for muting, blanking and cascading

Type	Description
PSEN op Ethernet cable	Ethernet cable for PSEN op Advanced Programming adapter (see page 93)



PSEN op cascading

Type	Description
PSEN op cascading	Cable for cascading



PSEN op pigtail receiver blanking

Type	Description
PSEN op pigtail emitter	Connection cable, transmitter
PSEN op pigtail receiver blanking	Connection cable, receiver, blanking
PSEN op pigtail receiver muting	Connection cable, receiver, muting



Features	Certification	Order number (by length)					
		3 m	5 m	10 m	20 m	30 m	50 m
<ul style="list-style-type: none"> ▶ Connection 1: unshielded, straight, M12, 12-pin, socket ▶ Connection 2: open cable 	UL	631 080	631 081	631 082	631 083	631 084	631 085
<ul style="list-style-type: none"> ▶ Connection 1: unshielded, straight, M12, 5-pin, socket ▶ Connection 2: open cable 	UL	630 310	630 311	630 312	630 298	630 297	630 364

Features	Order number (by length)		
	1 m	3 m	10 m
<ul style="list-style-type: none"> ▶ Connection 1: RJ45, 4-pin ▶ Connection 2: M12, 4-pin, plug, D-coded 	631 071	631 072	631 073

Features	Order number (by length)		
	0.05 m	0.5 m	1 m
<ul style="list-style-type: none"> ▶ Connection 1: 18-pin, system connector ▶ Connection 2: 18-pin, system connector 	631 058	631 059	631 060

Features	Order number
	0.2 m
<ul style="list-style-type: none"> ▶ Connection 1: 18-pin, system connector ▶ Connection 2: M12, 5-pin, plug 	631 055
<ul style="list-style-type: none"> ▶ Connection 1: 18-pin, system connector ▶ Connection 2: M12, 12-pin, plug 	631 056
<ul style="list-style-type: none"> ▶ Connection 1: 18-pin, system connector ▶ Connection 2: M12, 12 and 5-pin, plug 	631 057

PSENopt

▶ Selection guide – Cable for PSENopt slim and PSEn



PSENopt slim

PSENopt slim – cable selection and adapter



PSEn op SL cascading

Type	Description
PSEn op SL cascading	Cable for cascading



PSEn op SL adapter

Type	Description
PSEn op SL adapter	2 adapters for connecting PSENopt slim to PDP67 (transmitter/receiver)



PSEn op cable M12-5sf

Type	Description	Cable drag chain capability
PSEn op cable M12-5sf	Unshielded, straight, M12, 5-pin, socket	-



PSEnscan

PSEnscan – cable selection



PSEn cable axial M12 8-pole

Type	Description	Cable drag chain capability
PSEn cable axial M12 8-pin	I/Os and voltage supply	◆
PSEn op Ethernet cable	Connection cable to PC/network	-

scan



Features	Certification	Order number (by length)		
		0.1 m	0.5 m	1 m
<ul style="list-style-type: none"> ▶ Connection 1: system connector, 5-pin ▶ Connection 2: straight, M12, 5-pin, socket 	-	631 183	631 184	631 185

Features	Certification	Order number
		0.1 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 5-pin, socket ▶ Connection 2: straight, M12, 5-pin, plug 	-	631 187

Features	Certification	Order number (by length)			
		3 m	5 m	10 m	20 m
Open cable	UL	630 310	630 311	630 312	630 298

Features	Certification	Order number (by length)				
		3 m	5 m	10 m	20 m	30 m
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, 8-pin, socket ▶ Connection 2: open cable 	UL	540 319	540 320	540 321	540 333	540 326
<ul style="list-style-type: none"> ▶ Connection 1: RJ45, 4-pin ▶ Connection 2: M12, 4-pin, plug, D-coded 	-	631 072	-	631 073	-	-

▶ Selection guide – Cable for PSEnvip and cable acc



PSEnvip 2

PSEnvip 2 – cable selection for PSEnvip 2 receiver



PSEN cable M12-4sm MIOsm

Type	Description
PSEN cable, M12-4sm MIOsm	Connection cable for PSEnvip 2 receiver

Sensor technology PSEN – accessory selection for customisable plugs and sockets



PSEN/PDP67 M12-8sf
screw terminals



PSEN/PDP67 M12-8sm
screw terminals

Type	Description
PSS67 M12 connector M12-5sf	Connector socket
PSS67 M12 connector M12-5sm	Connector plug
PSS67 M12 connector M12-5af	Connector socket
PSS67 M12 connector M12-5am	Connector plug
PSEN/PDP67 M12-8sf screw terminals	Connector socket
PSEN/PDP67 M12-8sm screw terminals	Connector plug

essories PSEN®

Features	Order number (by length)			
	8 m	10 m	15 m	20 m
<ul style="list-style-type: none"> ▶ Connection 1: shielded, straight, M12, 4-pin, socket ▶ Connection 2: Mini I/O 	584569	584570	584571	584572

Features	Certification	Order number
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, socket ▶ Connection 2: screw terminal suitable for 5-core cable, max. 0.75 mm² 	UL	380309
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, plug ▶ Connection 2: screw terminal suitable for 5-core cable, max. 0.75 mm² 	UL	380308
<ul style="list-style-type: none"> ▶ Connection 1: angled, M12, socket ▶ Connection 2: screw terminal suitable for 5-core cable, max. 0.75 mm² 	UL	380311
<ul style="list-style-type: none"> ▶ Connection 1: angled, M12, plug ▶ Connection 2: screw terminal suitable for 5-core cable, max. 0.75 mm² 	UL	380310
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, socket ▶ Connection 2: screw terminal suitable for 8-core cable, max. 0.5 mm² 	UL	540332
<ul style="list-style-type: none"> ▶ Connection 1: straight, M12, plug ▶ Connection 2: screw terminal suitable for 8-core cable, max. 0.5 mm² 	UL	540334

