

Light curtain PSENopt cable selection guide



PSENopt, PSENopt Advanced, PSENopt slim, PSENopt II











The safe solution: Sensor and control technology.

Light curtain PSENopt cable selection guide

Pilz offers an extensive portfolio of light curtains to safeguard interventions in the production process: light curtains PSENopt are available as Type 2 and Type 4 versions for finger, hand and body protection. The Advanced light curtains allow extended functionalities such as muting, blanking and cascading. Slimline light curtain PSENopt slim can be used for space-critical applications. With their high robustness of 50g, light curtains PSENopt II are ideally suited for rugged industrial environments. In addition to the first Type 3 version, they are also available for Type 4 applications.

A range of accessories perfectly tailored to our light curtains allows a wide range of applications. These are set out in detail on the following pages.

Contents

Single-beam safety light barriers Type 2, Type 4	8	Basic light curtains Type 2, Type 4	
		for body protection - with muting via	
Basic light curtains Type 2, Type 4		individual sensors	20
for finger and hand protection - standard case	10		
		Advanced light curtains Type 2, Type 4	
Basic light curtains Type 2, Type 4		for finger and hand protection -	
for finger and hand protection - Y-connection	12	basic function or with blanking	22
Basic light curtains Type 2, Type 4		Advanced light curtains Type 2, Type 4	
for finger and hand protection - with PDP67	14	for finger and hand protection - with muting	24
Basic light curtains Type 2, Type 4		Slimline light curtains PSENopt slim Type 2,	
for body protection – without muting	16	Type 4 for finger and hand protection -	
		standard case	26
Basic light curtains Type 2, Type 4			
for body protection – with integrated muting	18	Basic light curtains PSENopt II Type 3, Type 4	
		for finger and hand protection – standard case	28



www.pilz.com/facebook



www.pilz.com/linkedin



www.pilz.com/xing



www.pilz.com/twitter



www.pilz.com/youtube



www.pilz.com/google+



Pilz is your solution supplier for all automation tasks. Including standard control functions. Pilz developments protect man, machine and the environment. Pilz has a tradition as a family-run company stretching back over 60 years. Real proximity to customers is visible in all areas, instilling confidence through individual consultation, total flexibility and reliable service. Worldwide, round the clock, in 42 subsidiaries and branches, as well as 27 sales partners on every continent.

More than 2 400 staff, each one of them an ambassador for safety, make sure that your staff – your company's most valuable asset – can work safely and free from injury.









Automation solutions from Pilz – at home in every industry.



Pilz automation solutions

Pilz offers everything that you need for the automation of your plant and machinery: Innovative components and systems in which safety and automation are merged within hardware and software.

From sensor and control technology to drive technology, the ease of commissioning, operation and diagnostics plays an important role for all components and systems from Pilz. You benefit from flexible solutions for machines with an elementary function range through to large interlinked plants. With us you can standardise your safety, implement safety and automation in one periphery or find solutions for complete automation.

Pilz solutions are embedded into the relevant system environment – whether a new structure or a retrofit – and are open for a variety of interfaces and functionalities.

The perfect combination:

Control technology from Pilz

offers numerous application options, including monitoring of electrical and functional safety, through to complete machine control.

Safe sensors and decentralised modules from Pilz guarantee the efficient, compliant use of plant and machinery in combination with various control systems.



Our turnkey systems and universally compatible solutions offer a high savings potential.

Drive technology from Pilz is

characterised by drive-integrated safety functions, safe logic functions and the connection of visualisation, sensor and actuator technology.

Operator and visualisation systems from Pilz complete your plant and machinery.

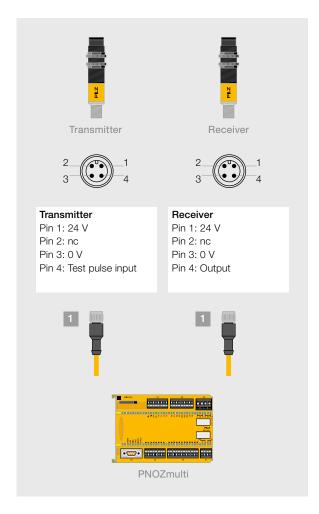
Automation software from Pilz

allows you to quickly and easily implement your planning, programming, configuration, commissioning, diagnostics and visualisation.

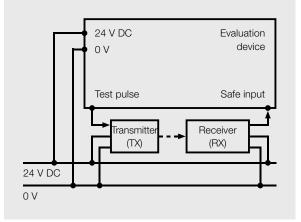
Pilz offers you automation solutions for the safety of man, machine and the environment.

Single-beam safety light barriersType 2, Type 4

PSEN op2S, PSEN op4S



- ▶ Connection:
 - Male connector, M12, 4-pin
 - Unshielded cables are possible
- ▶ Test signal:
 - The test signal travels from the evaluation device to the transmitter and is forwarded optically to the receiver. It is checked there by the controller.
 - The reaction time depends on the safety relay.
- The test signal must not be delayed for longer than 400 μ s, so the light barriers cannot be used in conjunction with PSSu.
- ▶ Combined with the configurable safe small controllers PNOZmulti, for example, you have a safe and economic complete solution.

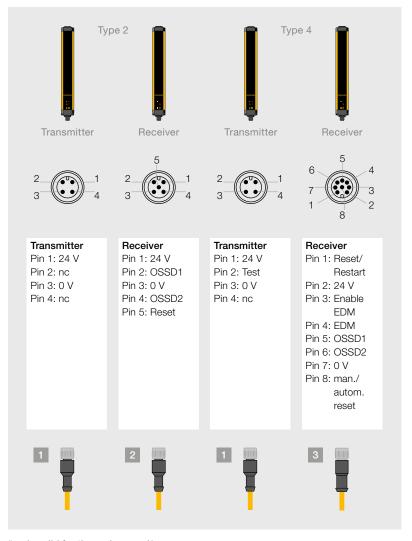


Single-beam safety light barriers Type 2, Type 4

Connection cable M12, 4-pin									
Туре	Description	Features	Order number (by length)						
			3 m	5 m	10 m	20 m	30 m	50 m	
PSEN op cable M12-4sf	Cable for connection to any evaluation device, unshielded	Connection 1: M12, 4-pin, female, straightConnection 2: open cable	630 300	630 301	630 302	-	630 296	630 362	
1 PSEN op cable M12-4sf sh	Cable for connection to any evaluation device, shielded	 Connection 1: shielded, M12, 4-pin, female, straight Connection 2: open cable 	630 303	630 304	630 305	630 270	630 309	630 366	

Basic light curtains Type 2, Type 4for finger and hand protection – standard case

PSEN op2H, PSEN op4F, PSEN op4H 1)



 $^{\mbox{\tiny 1)}}$ only valid for the series -s.../1

- ▶ Connection:
- Transmitter Type 2, 4: M12, 4-pin
- Receiver Type 2: M12, 5-pin
- Receiver Type 4: M12, 8-pin
- Unshielded cables are possible
- ▶ Type 4: Different operating modes can be activated via jumpers:
- Automatic start mode: jumper between manual/ automatic reset (pin 8) and OSSD1 (pin 5).
- The feedback loop must be jumpered via the EDM enable (pin 3), if not used then with pin 2/24 V.
- ▶ Combined with safety relays PNOZsigma, PNOZ X or PNOZ c2 and configurable small controllers PNOZmulti, for example, you have a safe and economic complete solution.

▶ Basic light curtains Type 2, Type 4 for finger and hand protection – standard case

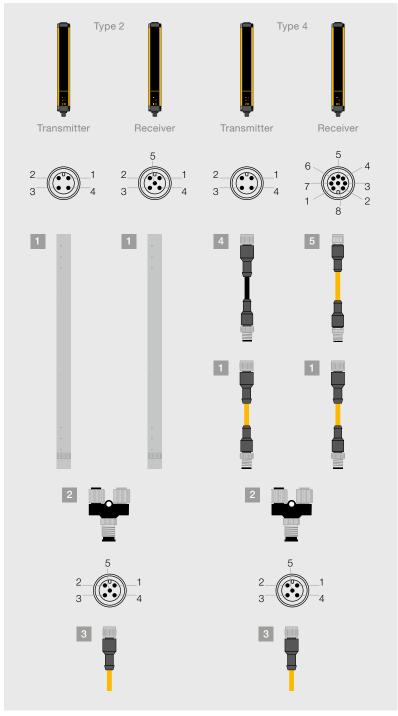
Connection cable	Connection cable M12, 4-pin										
Туре	Description	Features	Order number (by length)								
			3 m	5 m	10 m	20 m	30 m	50 m			
1 PSEN cable M12-4sf	Cable for connection to any evaluation device, unshielded	Connection 1: M12, 4-pin, female, straightConnection 2: open cable	630 300	630 301	630 302	-	630 296	630 362			
1 PSENcable M12-4af		Connection 1: M12, 4-pin, female, angledConnection 2: open cable	630 341	630 342	630 343	-	630 344	630 363			
1 PSEN cable M12-4sf sh	Cable for connection to any evaluation device, shielded	Connection 1: shielded, M12,4-pin, female, straightConnection 2: open cable	630 303	630 304	630 305	630 270	630 309	630 366			
1 PSEN cable M12-4af sh		Connection 1: shielded, M12, 4-pin, female, angled Connection 2: open cable	630 306	630 307	630 308	-	630 319	630 367			

Connection cable M12, 5-pin										
PSEN cable M12-5sf	Cable for connection to any evaluation device, unshielded	Connection 1: M12, 5-pin, female, straightConnection 2: open cable	630 310	630 311	630 312	630 298	630 297	630 364		
2 PSEN cable M12-5af		Connection 1: M12, 5-pin, female, angledConnection 2: open cable	630 347	630 348	630 349	-	630 350	630 365		

Connection cable M	Connection cable M12, 8-pin										
3 PSEN cable axial M12-8	Cable for connection to any evaluation device, unshielded	Connection 1: M12, 8-pin, female, straightConnection 2: open cable	540 319	540 320	540 321	-	540 326	-			
3 PSEN cable angle M12-8		Connection 1: M12, 8-pin, female, angledConnection 2: open cable	540 322	540 323	540 324	-	540 325	-			
3 PSEN cable axial M12-8 sh	Cable for connection to any evaluation device, shielded	Connection 1: M12, 8-pin, female, straightConnection 2: open cable	630 313	630 314	630 315	-	630 328	630 368			
3 PSEN cable angle M12-8 sh		Connection 1: M12, 8-pin, female, angledConnection 2: open cable	630 316	630 317	630 318	-	630 329	630 369			

Basic light curtains Type 2, Type 4 for finger and hand protection – Y-connection

PSEN op2H, PSEN op4F, PSEN op4H 1)



1) only valid for the series -s.../1

- ▶ Connection:
 - Transmitter Type 2, 4: M12, 4-pin
 - Receiver Type 2: M12, 5-pin
 - Receiver Type 4: M12, 8-pin
 - Unshielded cables are possible
- ▶ Type 2: The functionality of the transmitter is not affected by the Y-connector.
- Type 4: Use of the Y-connector results in the following changes in the wiring:
- No transmitter test input.
- The light curtain runs in automatic reset.
- No feedback loop monitoring.
- Additional adapters for transmitter and receiver (10 cm long) are required.
- Connection cable: M12, 5-pin
- ▶ Connection cable: M12, 5-pin
- ▶ Combined with safety relays PNOZsigma, PNOZ X or PNOZ c2 and configurable small controllers PNOZmulti, for example, you have a safe and economic complete solution.

▶ Basic light curtains Type 2, Type 4 for finger and hand protection – Y-connection

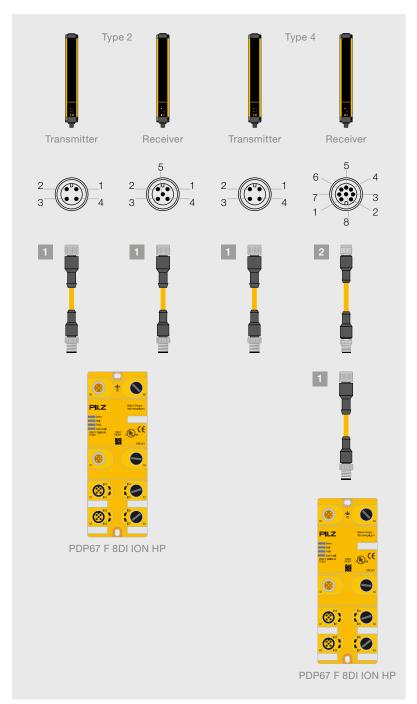
Connection cable M12, 5-pin										
Туре	Description	Features	Order nu	mber (by le	ength)					
			2 m	3 m	5 m	10 m	20 m	30 m		
PDP67 cable M12-5sf M12-5sm	Connection cable, unshielded	 Connection 1: M12, 5-pin, female, straight Connection 2: M12, 5-pin, male, straight 	380 713	380 208	380 209	380 210	380 220	380 21		
1 PDP67 cable M12-5af M12-5am		 Connection 1: M12, 5-pin, female, angled Connection 2: M12, 5-pin, male, angled 	-	380 212	380 213	380 214	-	380 21		

Connection cable M12, 5-pin										
Туре	Description	Features	Order number (by length)							
			3 m	5 m	10 m	20 m	30 m	50 m		
3 PSEN cable M12-5sf	Cable for connection to any evaluation device, unshielded	Connection 1: M12, 5-pin, female, straightConnection 2: open cable	630 310	630 311	630 312	630 298	630 297	630 364		
3 PSEN cable M12-5af		 Connection 1: M12, 5-pin, female, angled Connection 2: open cable 	630 347	630 348	630 349	-	630 350	630 365		

Y-connector/adapter		
Туре	Description	Order number
2 PSEN T M12	Y-connector: adapter for connecting PSEN op2H transmitter and receiver to PSS67/PDP67, 2 x M12 5p female, 1 x M12 5p male	380 350
4 PSEN opt M12 Transmitter adapter	Adapter for connecting one PSEN op2H transmitter to Y-connector: (380 350), 1 x M12 4p female, 1 x M12 5p male	380 304
5 PSEN op4F/H Receiver adapter	Adapter for connecting the receiver PSEN op4F/ 1 and PSEN op4H/1 to Y-connector (380 350)	380 326

▶ Basic light curtains Type 2, Type 4 for finger and hand protection – with PDP67

PSEN op2H, PSEN op4F, PSEN op4H 1)



- Connection Type 2:
- No adapter is required for connection to PDP67.
- Connection cable: M12, 5-pin
- Connection Type 4:
- To connect the receiver to IP67 modules PDP67 (773 601), an adapter (380 326) is required.
- Connection cable: M12, 5-pin

 $^{^{1)}}$ only valid for the series -s.../1

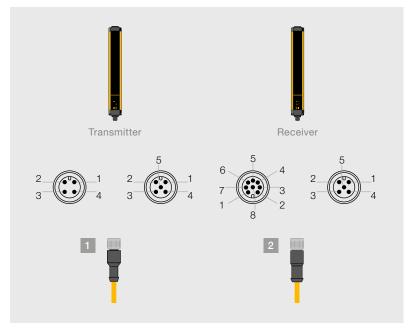
▶ Basic light curtains Type 2, Type 4 for finger and hand protection – with PDP67

Connection cable M12	Connection cable M12, 5-pin										
Туре	Description	Features	Order nu	mber (by le	ength)						
			2 m	3 m	5 m	10 m	20 m	30 m			
1 PDP67 cable M12-5sf M12-5sm	Connection cable, unshielded	 Connection 1: M12, 5-pin, female, straight Connection 2: M12, 5-pin, male, straight 	380 713	380 208	380 209	380 210	380 220	380 211			
1 PDP67 cable M12-5af M12-5am		 Connection 1: M12, 5-pin, female, angled Connection 2: M12, 5-pin, male, angled 	-	380 212	380 213	380 214	-	380 215			

Adapter		
Туре	Description	Order number
2 PSEN op4F/H Receiver adapter	Adapter for connecting the receiver PSEN op4F/ 1 and PSEN op4H/1 to PDP67	380 326

▶ Basic light curtains Type 2, Type 4 for body protection – without muting

PSEN op2B, PSEN op4B1)



1) only valid for the series -s.../1

- ▶ Connection:
 - Receiver: M12, 8-pin, M12, 5-pin
- Transmitter: M12, 4-pin, M12, 5-pin
- The 5-pin connections are not required if the muting functionalities are not used. They are only required for the voltage supply and for collecting the muting signals.
- Evaluation can only take place in the receiver.
- ▶ Combined with safety relays PNOZsigma, PNOZ X or PNOZ c2 and configurable small controllers PNOZmulti, for example, you have a safe and economic complete solution.

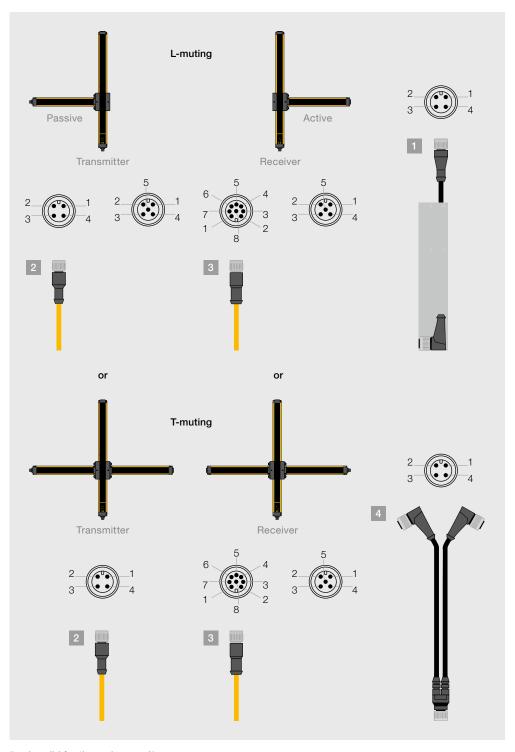
▶ Basic light curtains Type 2, Type 4 for body protection – without muting

Connection cable M12, 4-pin										
Туре	Description	Features	Order number (by length)							
			3 m	5 m	10 m	20 m	30 m	50 m		
PSEN op cable M12-4sf	Cable for connection to any evaluation device, unshielded	 Connection 1: M12, 4-pin, female, straight Connection 2: open cable 	630 300	630 301	630 302	-	630 296	630 362		
PSEN op cable M12-4sf sh	Cable for connection to any evaluation device, shielded	 Connection 1: shielded, M12, 4-pin, female, straight Connection 2: open cable 	630 303	630 304	630 305	630 270	630 309	630 366		

Connection cable M12	Connection cable M12, 8-pin									
PSEN cable axial M12-8	Cable for connection to any evaluation device, unshielded	Connection 1: M12, 8-pin, female, straightConnection 2: open cable	540 319	540 320	540 321	-	540 326	-		
PSEN cable angle M12-8		Connection 1: M12, 8-pin, female, angledConnection 2: open cable	540 322	540 323	540 324	-	540 325	-		
PSEN cable axial M12-8 sh	Cable for connection to any evaluation device, shielded	▶ Connection 1: shielded, M12,8-pin, female, straight▶ Connection 2: open cable	630 313	630 314	630 315	-	630 328	630 368		
2 PSEN cable angle M12-8 sh		▶ Connection 1: shielded, M12, 8-pin, female, angled▶ Connection 2: open cable	630 316	630 317	630 318	-	630 329	630 369		

Basic light curtains Type 2, Type 4 for body protection – with integrated muting

PSEN op2B, PSEN op4B1)



- Connection:Transmitter
 - Transmitter: M12, 4-pin
 - Receiver: M12, 8-pin
- L-Muting and T-Muting are possible.
- Use of the integrated muting arms saves on cabling and configuration work, as the internal wiring and orientation are already provided.
- The muting arms are simply connected via a cable (630 282 or 630 295) to the light curtain receiver.
- ▶ Since the distance between the muting sensors is fixed, there may be too little flexibility for identifying objects, depending on the transport speed.
- ▶ Combined with safety relays PNOZsigma or PNOZ c2 and configurable small controllers PNOZmulti, for example, you have a safe and economic complete solution.

 $^{^{1)}}$ only valid for the series -s.../1

▶ Basic light curtains Type 2, Type 4 for body protection – with integrated muting

Muting set		
Туре	Description	Order number
PSEN op2.1 L-Muting Set	Complete muting set for L-muting, incl. cable (630 282) and bracket	630 820
PSEN op2.2 T-Muting Set	Complete muting set for T-muting, incl. cable (630 295) and bracket	630 821

Cable for muting				
Туре	Description	Features	Order nu (by lengt	
			0.5 m	0.75 m
PSEN op cable M12-4sf sh	Cable for L-muting, shielded	▶ Connection 1: M12, 4-pin, female, straight▶ Connection 2: M12, 4-pin, female, angled	-	630 282
PSEN op cableset M12-4sf sh	Cable for T-muting, shielded	Connection 1: shielded, M12, 4-pin, female, straight Connection 2: 2 x M12, 4-pin, female, angled	630 295	-

Connection cable M12, 4-pin								
Type Description Features Order number (by length)								
			3 m	5 m	10 m	20 m	30 m	50 m
2 PSEN op cable M12-4sf	Cable for connection to any evaluation device, unshielded	Connection 1: M12, 4-pin, female, straightConnection 2: open cable	630 300	630 301	630 302	-	630 296	630 362

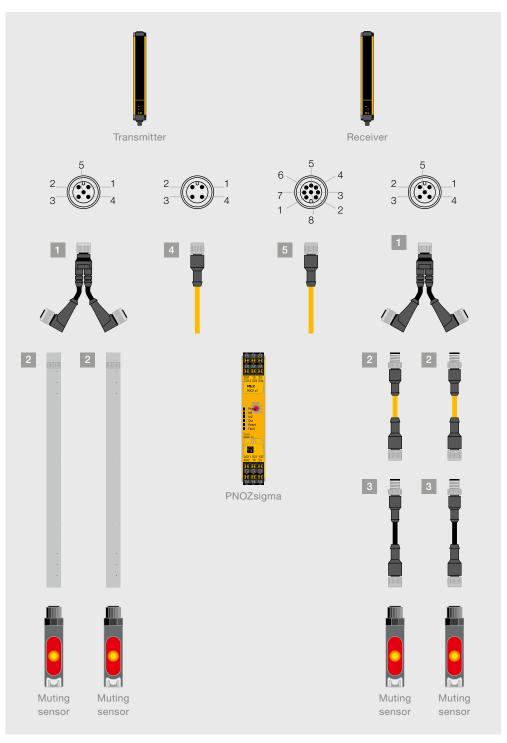
Shielded cables available (see page 17)

Connection cable M12	2, 8-pin							
PSEN cable axial M12-8	Cable for connection to any evaluation device, unshielded	Connection 1: M12, 8-pin, female, straightConnection 2: open cable	540 319	540 320	540 321	-	540 326	-
3 PSEN cable angle M12-8		▶ Connection 1: M12, 8-pin, female, angled▶ Connection 2: open cable	540 322	540 323	540 324	-	540 325	-

Shielded cables available (see page 17)

► Basic light curtains Type 2, Type 4 for body protection – with muting via individual sensors

PSEN op2B, PSEN op4B1)



- Connection:Receiver: Y
 - Receiver: Y-cable for connecting the individual sensors and 2 x connection cables M12, 5-pin as well as 2 x adapter cables for connecting the individual sensors
 - Transmitter: Y-cable for connecting the individual sensors and 2 x connection cables M12, 5-pin
- The muting sensors have 2 outputs (N/O / N/C).
- ▶ Use of the adapter cable to connect the individual sensors (380 323) means the N/C contact is not continued. As a result the transmitter only sends a signal when it is triggered.
- ▶ Reflex light curtains or proximity switches with N/O contact, for example, can also be used.
- ▶ Combined with safety relays PNOZsigma or PNOZ c2 and configurable small controllers PNOZmulti, for example, you have a safe and economic complete solution.
- Note: This type of control relates to the muting functionality directly in the light curtain. Muting can also be realised in the PNOZmulti. This would require all sensors to be connected to the PNOZmulti.

¹⁾ only valid for the series -s.../1

► Basic light curtains Type 2, Type 4 for body protection – with muting via individual sensors

Connection of the individual muting sensors						
Туре	Description	Order number				
1 PSEN op cableset M12-4sf shielded	Y-cable for connecting the individual sensors, shielded, 0.5 m	630 295				
3 PSEN op2/4 M12 Receiver ad	Adapter cable for connecting the individual sensors (only required for receiver), 0.1 m	380 323				

Connection cable M	112, 5-pin							
Туре	Description	Features	Order nu	er number (by length)				
			2 m	3 m	5 m	10 m	20 m	30 m
PDP67 cable M12-5sf M12-5sm	Connection cable, unshielded	 Connection 1: M12, 5-pin, female, straight Connection 2: M12, 5-pin, male, straight 	380 713	380 208	380 209	380 210	380 220	380 211
PDP67 cable M12-5af M12-5am		 Connection 1: M12, 5-pin, female, angled Connection 2: M12, 5-pin, male, angled 	-	380 212	380 213	380 214	-	380 215

Connection cable M12, 4-pin								
Type Description Features Order number (by length)								
			3 m	5 m	10 m	20 m	30 m	50 m
4 PSEN op cable M12-4sf	Cable for connection to any evaluation device, unshielded	▶ Connection 1: M12, 4-pin, female, straight▶ Connection 2: open cable	630 300	630 301	630 302	-	630 296	630 362

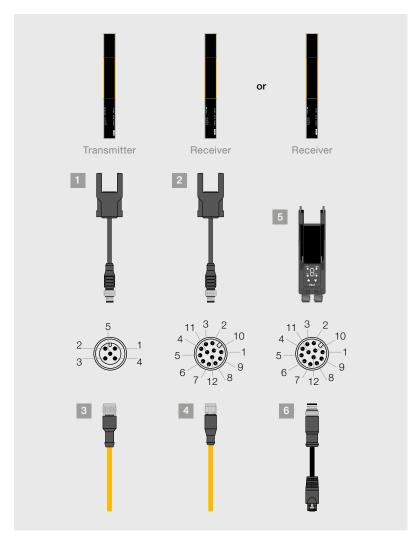
Shielded cables available (see page 17)

Connection cable M	112, 8-pin							
5 PSEN cable axial M12-8	Cable for connection to any evaluation device, unshielded	Connection 1: M12, 8-pin, female, straightConnection 2: open cable	540 319	540 320	540 321	-	540 326	-
5 PSEN cable angle M12-8		▶ Connection 1: M12, 8-pin, female, angled▶ Connection 2: open cable	540 322	540 323	540 324	-	540 325	-

Shielded cables available (see page 17)

Advanced light curtains Type 2, Type 4 for finger and hand protection – basic function or with blanking

PSEN op2H-A, PSEN op4H-A, PSEN op4F-A



- The Advanced light curtains each have an 18-pin system connector.
- The different pigtail cables are not supplied with the device.
- ➤ The blanking cable for the receiver is an option in the case of operation without muting, as there is only one cable outlet here.
- ▶ The programming adapter can only be used with the Type 4 version (software configuration).
- If the programming adapter is used there is no pigtail cable at the receiver.
- Combined with safety relays PNOZsigma or PNOZ X and configurable small controllers PNOZmulti, for example, you have a safe and economic complete solution.

Advanced light curtains Type 2, Type 4 for finger and hand protection – basic function or with blanking

Pigtail cables			
Туре	Description	Features	Order number (by length)
			0.2 m
1 PSEN op pigtail emitter	Pigtail cable transmitter	▶ Connection 1: 18-pin, system connector▶ Connection 2: M12, 5-pin, male	631 055
2 PSEN op pigtail receiver blanking	Pigtail cable receiver blanking	Connection 1: 18-pin, system connector Connection 2: M12, 5-pin, male	631 056

Туре	Description	Features	Order nu	Order number (by length)				
			3 m	5 m	10 m	20 m	30 m	50 m
3 PSEN cable M12-5sf	Cable for connection to any evaluation	Connection 1: M12, 5-pin, female, straightConnection 2: open cable	630 310	630 311	630 312	630 298	630 297	630 36
3 PSEN cable M12-5af	device, unshielded	Connection 1: M12, 5-pin, female, angledConnection 2: open cable	630 347	630 348	630 349	-	630 350	630 36

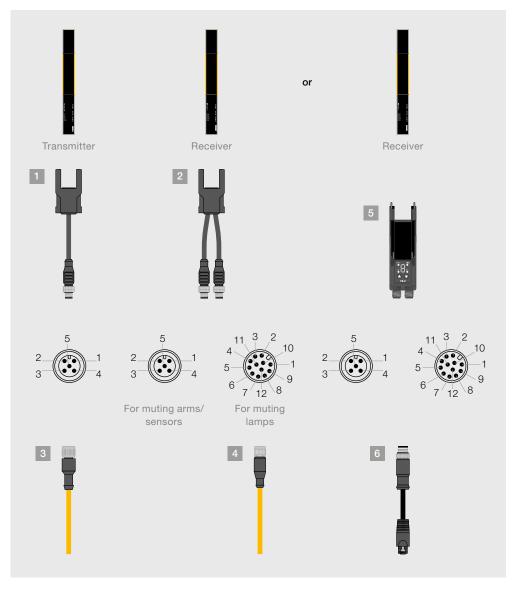
Connection cable M	112, 12-pin							
PSEN op cable axial M12 12-pole	Cable for connection to any evaluation device, unshielded	 Connection 1: M12, 12-pin, unshielded, female, straight Connection 2: open cable 	631 080	631 081	631 082	631 083	631 084	631 085

Programming adapter		
Туре	Description	Order number
5 PSEN op Advanced Programming Adapter	Programming adapter for PSENopt Configurator	631 070

Ethernet cable					
Туре	Description	Features	Order number (by I	ength)	
			1 m	3 m	10 m
6 PSEN op Ethernet cable	Ethernet cable for PSEN op Advanced Programming Adapter	 Connection 1: RJ45, 4-pin Connection 2: M12, 4-pin, male, D-coded 	631 071	631 072	631 073

Advanced light curtains Type 2, Type 4 for finger and hand protection – with muting

PSEN op2H-A, PSEN op4H-A, PSEN op4F-A



- Muting requires the pigtail cable with 2 outlets totalling 17 pins (12-pin and 5-pin).
- ▶ The integrated muting functions are addressed in the same way as light curtains with body resolution. The need for a muting lamp must be verified.
- The possible programming adapter replaces the pigtail cable on the receiver.
- ▶ The integrated muting arms can also be used with the Advanced light curtains.
- If muting via external sensors with a PNOZmulti, for example, the blanking wiring can be used (see page 23).
- Combined with safety relays PNOZsigma or PNOZ X and configurable small controllers PNOZmulti, for example, you have a safe and economic complete solution.

Advanced light curtains Type 2, Type 4 for finger and hand protection – with muting

Pigtail cables			
Туре	Description	Features	Order number (by length)
			0.2 m
1 PSEN op pigtail emitter	Pigtail cable transmitter	Connection 1: 18-pin, system connectorConnection 2: M12, 5-pin, male	631 055
2 PSEN op pigtail receiver muting	Pigtail cable receiver muting	 Connection 1: 18-pin, system connector Connection 2 (3): M12, 5-pin, male and M12, 12-pin, male 	631 057

Connection cable I	M12, 5-pin							
Туре	Description	Features	Order number (by length)					
			3 m	5 m	10 m	20 m	30 m	50 m
3 PSEN cable M12-5sf	Cable for connection to any evaluation	Connection 1: M12, 5-pin, female, straightConnection 2: open cable	630 310	630 311	630 312	630 298	630 297	630 364
3 PSEN cable M12-5af	device, unshielded	 Connection 1: M12, 5-pin, female, angled Connection 2: open cable 	630 347	630 348	630 349	-	630 350	630 365

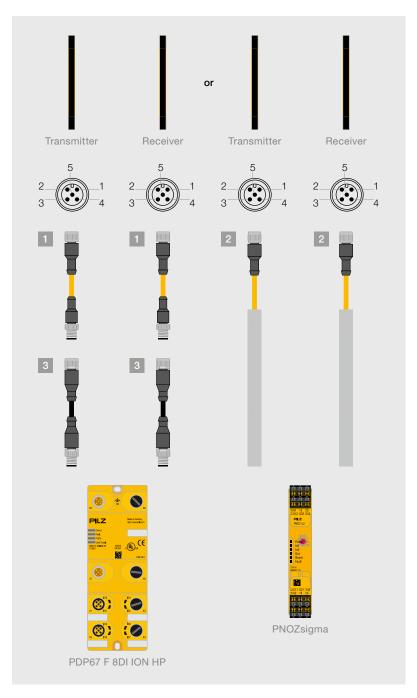
Connection cable M	112, 12-pin							
PSEN op cable axial M12 12-pole	Cable for connection to any evaluation device, unshielded	 Connection 1: M12, 12-pin, unshielded, female, straight Connection 2: open cable 	631 080	631 081	631 082	631 083	631 084	631 085

Programming adapter		
Туре	Description	Order number
5 PSEN op Advanced Programming Adapter	Programming adapter for PSENopt Configurator	631 070

Ethernet cable					
Туре	Description	Features	Order number (by I	ength)	
			1 m	3 m	10 m
6 PSEN op Ethernet cable	Ethernet cable for PSEN op Advanced Programming Adapter	Connection 1: RJ45, 4-pin Connection 2: M12, 4-pin, male, D-coded	631 071	631 072	631 073

► Slimline light curtains PSENopt slim Type 2, Type 4 for finger and hand protection – standard case

PSEN op2H-SL, PSEN op4F-SL, PSEN op4H-SL



- ► Connection of transmitter and receiver:
 - PSENopt slim light curtains have fixed pigtail outlets with M12,
 5-pin male connectors.
 - M12, 5-pin connection cables are required.
 - Direct connection to the IP67 module PDP67 (773601) is possible.
- ➤ The following functions are not possible with a direct connection to the PDP67:
 - Automatic start
 - EDM
 - Adjustment mode
- Combined with PDP67 and safety relays PNOZsigma, PNOZ X or PNOZ c2, for example, you have a safe and economic complete solution.

Slimline light curtains PSENopt slim Type 2, Type 4 for finger and hand protection – standard case

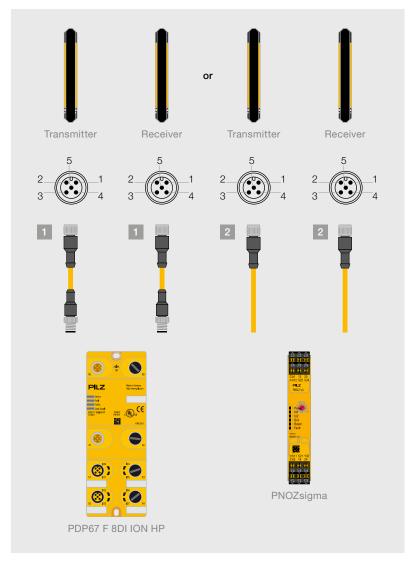
Connection cable M1	2, 5-pin							
Туре	Description	Features	Order nu	mber (by le	ength)			
			2 m	3 m	5 m	10 m	20 m	30 m
PDP67 cable M12-5sf M12-5sm	Connection cable, unshielded	 Connection 1: M12, 5-pin, female, straight Connection 2: M12, 5-pin, male, straight 	380 713	380 208	380 209	380 210	380 220	380 211
1 PDP67 cable M12-5af M12-5am		 Connection 1: M12, 5-pin, female, angled Connection 2: M12, 5-pin, male, angled 	-	380212	380213	380214	-	380215

Connection cable M1	2, 5-pin							
Туре	Description	Features	Order nu	mber (by le	ength)			
			3 m	5 m	10 m	20 m	30 m	50 m
PSEN cable M12-5sf	Cable for connection to any evaluation	Connection 1: M12, 5-pin, female, straightConnection 2: open cable	630 310	630 311	630 312	630 298	630 297	630 364
2 PSEN cable M12-5af	device, unshielded	 Connection 1: M12, 5-pin, female, angled Connection 2: open cable 	630 347	630 348	630 349	-	630 350	630 365

PDP adapter		
Туре	Description	Order number
3 PSEN op SL adapter	Adapter for connecting PSENopt slim to PDP67	631 187

▶ Basic light curtains PSENopt II Type 3, Type 4 for finger and hand protection – standard case

PSEN opli3F, PSEN opli3H, PSEN op4F, PSEN op4H



- Connection of transmitter and receiver:
 - PSENopt II Type 3 light curtains have fixed pigtail outlets with M12, 5-pin male connectors.
 - M12, 5-pin connection cables are required.
 - Unshielded connection cables can also be used.
 - Connection directly to the IP67 module PDP67 is possible.
- ▶ Combined with PDP67 and safety relays PNOZsigma, PNOZ X or PNOZ c2, for example, you have a safe and economic complete solution.

► Basic light curtains PSENopt II Type 3, Type 4 for finger and hand protection – standard case

Connection cable M1	2, 5-pin							
Туре	Description	Features	Order nu	mber (by l	ength)			
			2 m	3 m	5 m	10 m	20 m	30 m
PDP67 cable M12-5sf M12-5sm	Connection cable, unshielded	 Connection 1: M12, 5-pin, female, straight Connection 2: M12, 5-pin, male, straight 	380 713	380 208	380 209	380 210	380 220	380 211
1 PDP67 cable M12-5af M12-5am		 Connection 1: M12, 5-pin, female, angled Connection 2: M12, 5-pin, male, angled 	-	380212	380213	380214	-	380215

Connection cable	M12, 5-pin							
Туре	Description	Features	Order nu	mber (by l	ength)			
			3 m	5 m	10 m	20 m	30 m	50 m
PSEN cable M12-5sf	Cable for connection to any evaluation	Connection 1: M12, 5-pin, female, straightConnection 2: open cable	630 310	630 311	630 312	630 298	630 297	630 364
2 PSEN cable M12-5af	device, unshielded	Connection 1: M12, 5-pin, female, angled Connection 2: open cable	630 347	630 348	630 349	-	630 350	630 365

SafetyEYE®, SafetyNET p® THE SPIRIT OF SAFETY® are registered and protected trademarks of Pilz GmbH & Co. KG in some countries. We would point out that product features may vary from the details stated in this document, depending on the status at the time of publication and the scope of the equipment. We accept no responsibility for the validity, accuracy and entirety of the text and graphics presented in this information. Please contact our Technical Support if you have any questions.

InduraNET p., PAS4000°, PAScale, PASconfig., PILz, PILD', PMCprimor, PMCprotegoe, PMCtendoe, PMDe, PMIe, PNOZ', Primor, PSEN', PSS', PVIS', SafetyBUS p.,

Technical support is available from Pilz round the clock.

Americas
Brazil
+55 11 97569-2804
Canada
+1 888-315-PILZ (315-7459)
Mexico
+52 55 5572 1300
USA (toll-free)
+1 877-PILZUSA (745-9872)

Asia
China
+86 21 60880878-216
Japan
+81 45 471-2281
South Korea
+82 31 778 3300

Australia +61 3 95600621 Europe Austria +43 1 7986263-0 Belgium, Luxembourg +32 9 3217575 France +33 3 88104000 Germany +49 711 3409-444 Ireland +353 21 4804983 Italy, Malta

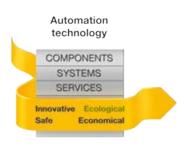
+39 0362 1826711

Scandinavia +45 74436332 Spain +34 938497433 Switzerland +41 62 88979-30 The Netherlands +31 347 320477 Turkey +90 216 5775552 United Kingdom

+44 1536 462203

You can reach our international hotline on: +49 711 3409-444 support@pilz.com

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.



Presented by:

Pilz GmbH & Co. KG Felix-Wankel-Straße 2 73760 Ostfildern, Germany

Tel.: +49 711 3409-0, Fax: +49 711 3409-133 E-Mail: info@pilz.com, Internet: www.pilz.com

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











