



The safe, complete solution

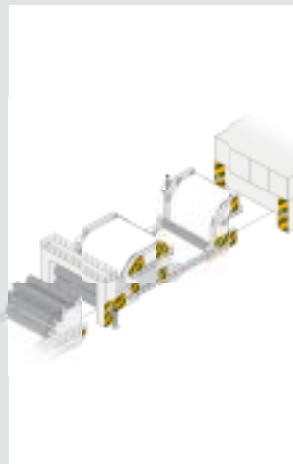
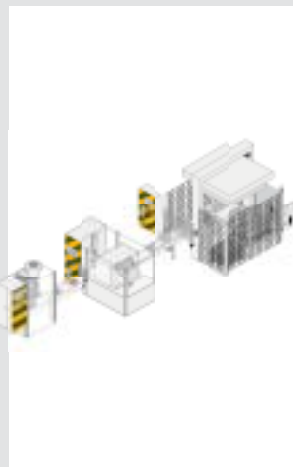
► Compatible with sensor technology: Cont



Our sensors are perfectly compatible with Pilz control technology. You receive first-class components, which you can use individually or combine to form a system.

- **PNOZ:** Safety relays for simple plant and machinery with up to 4 safety functions. Safe monitoring of safety gates and light grids, for example.
- **PNOZmulti Mini:** Safety relay with a compact design, which still provides the proven functions of the PNOZmulti as well as an integrated display for diagnostics.
- **PNOZmulti:** Configurable control system which is multi-functional, freely configurable and tailor-made for use in many areas of mechanical engineering.
- **PSS:** Programmable control systems for use on complex machinery or distributed plants, to monitor safety-related functions and/or for complete machine control.
- **PSS 4000:** The automation system for standard and safety is the ideal system for automation solutions in all industries. Reduce engineering effort and costs, now!

Your requirements:



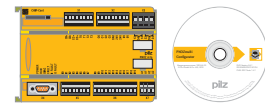
Our solution:



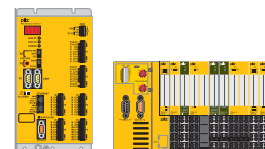
Relays for functional safety PNOZ



Configurable safety relays PNOZmulti Mini



Configurable control system PNOZmulti



Programmable control systems PSS



Automation system PSS 4000

Keep up-to-date on control technology:

Webcode 0196

Online information at www.pilz.com

rol technology and services

Easy project implementation with Pilz

Pilz offers a comprehensive range of services to help implement sensor technology in your application:

▶ Safety-related inspection

- Plant assessment
- Risk analysis



▶ Safety concept in accordance with the current standards and directives

- ▶ Including safety design
 - Measurement of plant/machine's stopping time
 - Calculation of safety distances



▶ Including system implementation

- Preparation/adaptation of circuit diagrams
- Wiring, assembly, installation
- System configuration
- Testing prior to initial commissioning
- Commissioning



▶ Safety validation



▶ CE Services



▶ Training



▶ Repeat testing (ESPE inspection)



Machinery safety services:

Webcode 0427

Machinery safety training courses:

Webcode 0218

Online information at www.pilz.com



► Selection guide – Accessories: Cable

Cable with socket for PSEnmag



PSEn cable

Description Type	Features	Quantity
Cable, M8, 4-pin Kabel/cable	Straight, screw-on	1
	Angled, screw-on	1
Cable, M8, 8-pin PSEn cable	Straight, screw-on	1

Cable with socket for PSEncode, PSEnini, PSEnlock



PSEn cable

Cable, M8, 8-pin PSEn cable	Straight, screw-on	1
Cable, M12, 8-pin PSEn cable	Straight, screw-on	1
	Angled, screw-on	1

Cable with socket for PSEnhinge, PSEnopt, PSEnvip



PSEn op cable



PSEn op cableset



PSEn op connector

Cable, shielded, M12, 4-pin PSEn op cable	Straight	1
	Angled	1
Cable, shielded, M12, 8-pin PSEn op cable	Straight	1
	Angled	1
Cable, M12, 4-pin PSEn op cable	Straight	1
	Angled	1
Cable, M12, 5-pin PSEn op cable	Straight	1
	Angled	1
Cable, shielded, M12, 5-pin PSEn op cable	Cable for cascading, straight	1
Cable, shielded, M12, 4-pin PSEn op cableset	Cable for L-Muting, coupling socket, straight/angled	1
Cable, shielded, M12, 4-pin PSEn op cableset	Y-cable for T-Muting, angled	1
Plug-in adapter, M12, 5-pin PSEn op connector	M12 coupling sockets, for cascade master in standalone mode	1

Cable with connector for SafetyEYE



PSEn se Cable FO2C

Cable for data and supply voltage PSEn se Cable FO2C	To connect the sensing device to the analysis unit: FOC for data, copper cables for 12 V supply voltage	1
Ethernet connection cable PSEn se Cable ETH Patch	To connect the analysis unit to the programmable control system or configuration PC, shielded	1

Order number (by length)

0.5 m	0.75 m	1 m	2 m	3 m	5 m	10 m	15 m	30 m	50 m	80 m
-	-	-	533 111	-	533 121	533 131	-	533 141	-	-
-	-	-	533 110	-	533 120	533 130	-	533 140	-	-
-	-	-	533 150	-	533 151	533 152	-	533 154	-	-

-	-	-	533 150	-	533 151	533 152	-	533 154	-	-
-	-	-	-	540 319	540 320	540 321	-	540 326	-	-
-	-	-	-	540 322	540 323	540 324	-	540 325	-	-

-	-	-	-	630 303	630 304	630 305	-	630 309	-	-
-	-	-	-	630 306	630 307	630 308	-	630 319	-	-
-	-	-	-	630 313	630 314	630 315	-	630 328	-	-
-	-	-	-	630 316	630 317	630 318	-	630 329	-	-
-	-	-	-	630 300	630 301	630 302	-	630 296	-	-
-	-	-	-	630 341	630 342	630 343	-	630 344	-	-
-	-	-	-	630 310	630 311	630 312	-	630 297	-	-
-	-	-	-	630 347	630 348	630 349	-	630 350	-	-
630 280	-	630 281	-	-	-	-	-	-	-	-
-	630 282	-	-	-	-	-	-	-	-	-

630 295

630 285

-	-	-	-	-	-	-	581 122	581 123 ¹⁾	581 124	581 125
-	-	581 112 ²⁾	-	-	581 111 ¹⁾	-	-	-	-	-

¹⁾ 1 cable included
in the SafetyEYE
Starter Set
(2nd generation)

²⁾ 2 cables included
in the SafetyEYE
Starter Set
(2nd generation)



▶ Selection guide – Accessories for series connection

Accessories for series connection for PSENIini, PSENcode, PSENslock, PSENsgate



PSEN Y junction



PDP67 F 4 code

Description Type	Features	Quantity	Order number
Diagnostic connector PSEN T junction M12	M12, 8-pin	1	540331
Cable separator PSEN Y junction M8-M12/M12	M8, 8-pin	1	540327
PSEN Y junction M12-M12/M12	M12, 8-pin	1	540328
Connection cable PSEncable M12-8sf M12-8sm	M12, 8-pin	1	2 m540340 5 m540341 10 m540342 20 m540343 30 m540344
Multiple interface PDP67, protection type: IP67 PDP67 F 8DI ION	Series connection up to PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061 and Cat. 4 of EN 954-1 Sensor junction box for decentralized periphery PNOZmulti	1	773600
PDP67 F 4 code	Passive junction for PSENcode	1	773603

Accessories for series connection for PSENmag, PSENmech, PSENhinge, PSENrope



PDP67 F 8DI ION

Multiple interface PDP67, protection type: IP67 PDP67 F 8DI ION	Series connection up to PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061 and Cat. 4 of EN 954-1 Sensor junction box for decentralized periphery PNOZmulti	1	773600
Multiple interface for PSENmag (PSEN 1 series) PSEN ix1	Can be used for connection to: ▶ Safety relays PNOZsigma, PNOZpower, PNOZ X ▶ Configurable control systems PNOZmulti ▶ Programmable control systems PSS	1	535120
Multiple interface for PSENmag (PSEN 2 series) PSEN i1	Can be used for connection to: ▶ Safety relays PNOZelog ▶ Configurable control systems PNOZmulti ▶ Programmable control systems PSS	1	535110

Connection and installation

Installation accessories for PSENmech, PSENmag, PSENcode, PSENSlock



PSEN screw

Description Type	Features	Quantity	Order number
One-way screw to secure the actuator	<ul style="list-style-type: none"> ▶ Stainless steel ▶ Drive: One-way slot (safety screw) 		
PSEN screw M4x16	<ul style="list-style-type: none"> ▶ M4, 16 mm ▶ Suitable for PSEN 1.x, PSEN 2.x, PSEN me1x/1AS and PSEN me4x 	10	540 310
PSEN screw M5x10	<ul style="list-style-type: none"> ▶ M5, 10 mm ▶ Suitable for PSEN cs1.x and PSEN cs2.x 	10	540 311
PSEN screw M5x20	<ul style="list-style-type: none"> ▶ M5, 20 mm ▶ Suitable for PSEN cs1.x, PSEN cs2.x, PSEN me1x/1AR, PSEN me2/x, PSEN me3/x and PSEN sl-x 	10	540 312

Installation accessories for PSENmag (PSEN 1.1 and PSEN 2.1)



PSEN reverse spacer

Spacer PSEN spacer	Plastic	10	534 310
Mounting bracket PSEN bracket	Aluminium	1	532 110
Reverse spacer PSEN reverse spacer	Plastic	2	534 320

Installation accessories for PSENhinge

Blank hinge PSEN hs1 hinge	Stainless steel	1	570 280
Change kit PSEN hs kit1	To re-adjust the switching point	1	570 281

Installation accessories for PSENrope

Block rope pulley PSEN rs pulley flex	Rotatable	1	570 313
Rope for rope pull switch PSEN rs rope d3/d4	<ul style="list-style-type: none"> ▶ Rope diameter: 3 mm ▶ Insulation diameter: 4 mm ▶ PVC-coated, red 	1	50 m570 314 100 m570 315
Guide roller PSEN rs pulley 75	ø 75 mm	1	570 312
Cage clamp PSEN rs spring	Steel, max. spring force to tension the rope		
	175 N	1	570 310
	300 N	1	570 311