



► Safety gate systems PSENSlock



... safe position monitoring with process guarding in one system

Safety gate systems PSENSlock provide secure safety gate monitoring with a non-contact magnetic interlock of 500 N or 1,000 N (BG GS-ET 19) within one system.

With this combination of safe position monitoring and process guarding, PSENSlock are designed for the highest category applications.

Stringent protection of man and machine

PSENSlock are a safe alternative to existing mechanical technology. Highest possible manipulation protection and low wear and tear ensure a long service life and protect your investment.

Combined with Pilz control technology, you receive a safe, complete solution for guard monitoring.

Save time and costs during commissioning

Thanks to its flexible connections, PSENSlock can be installed and commissioned quickly and easily. They are optimized for mounting on the popular 45 mm profiles.

You can also save time and costs through series connection, even with the very highest safety requirements.

Type code for PSENSlock

PSEN sl-1.0p 2.2

Product area Pilz SENSors	Magnetic powered	Connection	Coding
Product range sl – PSENSlock	0.5 500 N 1.0 1,000 N	n Connector, M12, 5-pin p Connector, M12, 8-pin	1.1 Coded 2.1 Fully coded 2.2 Unique, fully coded
Operation ► Non-contact, coded ► Transponder (RFID) ► With safe semiconductor outputs			



► Selection guide – Safety gate systems

Common features

- Safety gate systems for monitoring the position of movable guards in accordance with EN 60947-5-3
- Suitable for applications up to PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061 and Cat. 4 of EN 954-1
- Series connection in combination with PSENSlock, PSENSgate, PSENIini, PSENcode up to PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061 and Cat. 4 of EN 954-1

Safety gate systems PSENSlock



PSEN sl-0.5p



PSEN sl-1.0p

Type	Type of coding	Holding force	Power consumption ¹⁾	Dimensions (H x W x D) in mm		Connection type	Order number ²⁾
				Safety guard locking device	Actuator		
PSEN sl-0.5p 1.1/PSEN sl-0.5	Coded ³⁾	500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 8-pin	570 500
PSEN sl-0.5n 1.1/PSEN sl-0.5	Coded ³⁾	500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 5-pin	570 503
PSEN sl-0.5p 2.1/PSEN sl-0.5	Fully coded ⁴⁾	500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 8-pin	570 501
PSEN sl-0.5n 2.1/PSEN sl-0.5	Fully coded ⁴⁾	500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 5-pin	570 504
PSEN sl-0.5p 2.2/PSEN sl-0.5	Unique, fully coded ⁵⁾	500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 8-pin	570 502
PSEN sl-0.5n 2.2/PSEN sl-0.5	Unique, fully coded ⁵⁾	500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 5-pin	570 505
PSEN sl-1.0p 1.1/PSEN sl-1.0	Coded ³⁾	1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 8-pin	570 600
PSEN sl-1.0p 1.1 VA/PSEN sl-1.0	Coded ³⁾	1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 8-pin	570 630
PSEN sl-1.0n 1.1/PSEN sl-1.0	Coded ³⁾	1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 5-pin	570 603
PSEN sl-1.0p 2.1/PSEN sl-1.0	Fully coded ⁴⁾	1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 8-pin	570 601
PSEN sl-1.0n 2.1/PSEN sl-1.0	Fully coded ⁴⁾	1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 5-pin	570 604
PSEN sl-1.0p 2.2/PSEN sl-1.0	Unique, fully coded ⁵⁾	1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 8-pin	570 602
PSEN sl-1.0n 2.2/PSEN sl-1.0	Unique, fully coded ⁵⁾	1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 5-pin	570 605

Electrical data

- Supply voltage: 24 VDC
- Safety outputs: 2
- Signal output: 1

Mechanical data

- Vertical and lateral offset: +/- 3 / +/- 5 mm
- Protection type: IP67

¹⁾ Gate locked ²⁾ Order number for sensor and actuator (one unit)

³⁾ Switch accepts any PSENSlock actuator

⁴⁾ Switch accepts only one PSENSlock actuator, teach-in up to 8 times

⁵⁾ Switch accepts only one PSENSlock actuator, no teach-in facility

★ Recommended type for the majority of applications

Safety gate systems PSENSgate



PSEN sg1c-2/1

Type	Number of pushbuttons	Number of emergency stop devices	Dimensions (H x W x D) in mm	Connection type	Order number
PSEN sg1c-2/1	2 ⁶⁾	1	466 x 200 x 104.5	Plug-in terminals	570 700
PSEN sg1c-4/1	4 ⁷⁾	1	556 x 200 x 104.5	Plug-in terminals	570 701

Electrical data

- Supply voltage: 24 VDC
- Safety outputs: 2 (semiconductor, max. 500 mA each)
- Signal output: 500 mA
- "Safe range" input (solenoid pin): 1.5 A, 150 ms
- Power consumption depends on configuration (gate locked): Max. 2 W
- Voltage tolerance: -15/+10 %

Mechanical data

- Vertical and lateral offset: +/- 5 / +/- 5 mm
- Protection type: IP65/54
- Holding force, swing gate: 2,000 N
- Holding force, bolt (holding pin): 1,000 N
- Connection type: Plug-in spring-loaded terminals

⁶⁾ 2 illuminated buttons: 1 request button, 1 reset button,

⁷⁾ 4 illuminated buttons: 1 request button, 1 reset button, 2 free pushbuttons (100 mA)

★ Recommended type for the majority of applications



Technical documentation on safety gate systems:

► PSENSlock

Webcode 4898

► PSENSgate

Webcode 5546

Accessories, supplementary products and services:

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Webcode 0326

Online information at www.pilz.com