



► Safety gate systems PSENSlock



PSEN sl-0.5p

PSEN sl-1.0p

... 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

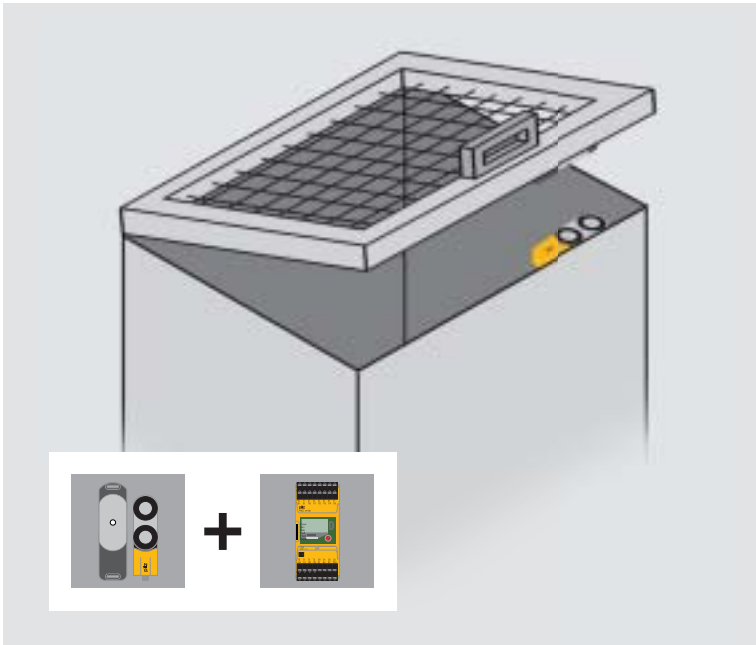
Thanks to its flexible connections, PSENSlock can be installed and commissioned quickly and easily. They are optimized for mounting on the popular 45 mm profiles.

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			



The optimum solution: Guard locking on the flap using the safety gate system PSEnslock, evaluated using the safety relay PNOZmulti Mini.

Your benefits at a glance

- ▶ System optimized for safe position monitoring with process guarding
- ▶ High availability for your plant:
 - Suitable for the highest safety requirements
 - Highest level of manipulation protection (coding)
 - Process protection via magnetic guard locking
- ▶ Fast commissioning:
 - Four assembly directions
 - Tolerant to gate misalignment
 - Flexible connection via connector
- ▶ User-friendly diagnostics via double-sided LED display
- ▶ Save power, as the magnet on PSEnslock is optimized for energy efficiency

Selection guide

The product selection guide can be found on page 38–39.



Keep up-to-date
on safety gate
systems PSEnslock:

 Webcode 4898

Online information
at www.pilz.com



► 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, PSEnini, 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



Type	Type of coding
PSEn sl-0.5p 1.1/PSEn sl-0.5	Coded ³⁾
PSEn sl-0.5n 1.1/PSEn sl-0.5	Coded ³⁾
PSEn sl-0.5p 2.1/PSEn sl-0.5	Fully coded ⁴⁾
PSEn sl-0.5n 2.1/PSEn sl-0.5	Fully coded ⁴⁾
PSEn sl-0.5p 2.2/PSEn sl-0.5	Unique, fully coded ⁵⁾
PSEn sl-0.5n 2.2/PSEn sl-0.5	Unique, fully coded ⁵⁾
PSEn sl-1.0p 1.1/PSEn sl-1.0	Coded ³⁾
PSEn sl-1.0p 1.1 VA/PSEn sl-1.0	Coded ³⁾
PSEn sl-1.0n 1.1/PSEn sl-1.0	Coded ³⁾
PSEn sl-1.0p 2.1/PSEn sl-1.0	Fully coded ⁴⁾
PSEn sl-1.0n 2.1/PSEn sl-1.0	Fully coded ⁴⁾
PSEn sl-1.0p 2.2/PSEn sl-1.0	Unique, fully coded ⁵⁾
PSEn sl-1.0n 2.2/PSEn sl-1.0	Unique, fully coded ⁵⁾

Electrical data

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

Safety gate systems PSEnSgate



Type
PSEn sg1c-2/1
PSEn sg1c-4/1

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 %

Holding force	Power consumption ¹⁾	Dimensions (H x W x D) in mm		Connection type	Order number ²⁾
		Safety guard locking device	Actuator		
500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 8-pin	570 500
500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 5-pin	570 503
500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 8-pin	570 501
500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 5-pin	570 504
500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 8-pin	570 502
500 N	4.8 W	122 x 45 x 44	138 x 52 x 23	Connector, M12, 5-pin	570 505
1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 8-pin	570 600
1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 8-pin	570 630
1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 5-pin	570 603
1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 8-pin	570 601
1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 5-pin	570 604
1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 8-pin	570 602
1,000 N	7.2 W	172 x 45 x 44	188 x 52 x 22	Connector, M12, 5-pin	570 605

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

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

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:

From page 62

Webcode 0326

Online information at www.pilz.com