

PSENslock safety gate systems – now with 1000 N of magnetic force

pilz

Strict safety regulations require health and safety measures to be safe from manipulation and defeat.

The new PSENslock non-contact safety gate systems offer a safe alternative to existing mechanical technology. PSENslock combines safety door monitoring with an electrosensitive magnetic interlock of 500 N (PSEN sl-0.5p) or 1000 N (PSEN sl-1.0p) in one unit.

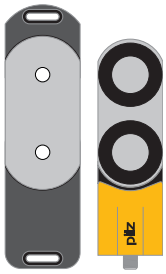
With this combination of safe position monitoring and process guarding, PSENslock is designed for applications up to PL e in accordance with EN ISO 13849-1, SIL 3 in accordance with EN/IEC 62061, Category 4 in accordance with EN 954-1 and protection type IP67. In addition, PSENslock is optimised for mounting on to common 45 mm profiles. Combined with the control technology from Pilz, you receive a safe, complete solution for safety gate monitoring.

Your benefits at a glance

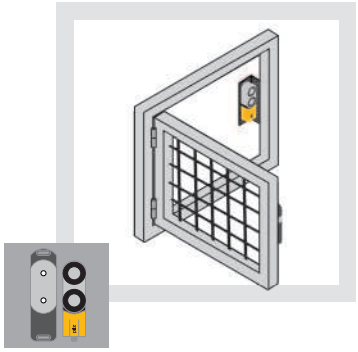
- Safe from manipulation thanks to proven transponder technology
- Process protection thanks to magnetic guard locking in 500 and 1000 N
- Tolerant to gate misalignment
- Four assembly directions thanks to double-sided LED indicator

PSEN sl-0.5p (500 N) available now
PSEN sl-1.0p (1000 N) available from May 2009

the spirit of safety



PSEN sl-1.0p



PSENslock safety gate systems – for safety gate monitoring.

Technical features

PSEN sl-0.5p

Electrical data

Holding force at 24 V/25 °C	500 N
Power consumption (gate locked)	4.8 W

Safety guard locking device dimensions in mm (H x W x D)
- 122 x 45 x 44

Actuator dimensions in mm (H x W x D)
- 138 x 52 x 24

PSEN sl-1.0p

Electrical data

Holding force at 24 V/25 °C	1000 N
Power consumption (gate locked)	7.2 W

Safety guard locking device dimensions in mm (H x W x D)
- 172 x 45 x 44

Actuator dimensions in mm (H x W x D)
- 188 x 52 x 22

Common features of PSEN sl-0.5p/PSEN sl-1.0p

Electrical data

Supply voltage	24 VDC
Voltage tolerance	-15 ... +10 %
Safety outputs (semiconductor outputs, short circuit proof, 500 mA)	2
Signal output (semiconductor outputs, short circuit proof, 500 mA)	1

Mechanical data

Vertical or lateral offset	+/-3 or +/-5 mm
Connection type	8-pin M12 male connector
Protection type	IP67

Series connection

In combination with PSENslock, PSENsgate, PSENcode	up to PL e/Cat. 4, SIL 3 and Cat. 4

Order numbers	PSEN sl-0.5p	PSEN sl-1.0p
Safety gate system incl. actuator		
PSEN sl-0.5p 1.1 unit (coded)	570500	
PSEN sl-0.5p 2.1 unit (fully coded)	570501	
PSEN sl-0.5p 2.2 unit (unique, fully coded)	570502	
PSEN sl-1.0p 1.1 unit (coded)		570600
PSEN sl-1.0p 2.1 unit (fully coded)		570601
PSEN sl-1.0p 2.2 unit (unique, fully coded)		570602
Safety gate system without actuator		
PSEN sl-0.5p 1.1 (coded)	570510	
PSEN sl-0.5p 2.1 (fully coded)	570511	
PSEN sl-1.0p 1.1 (coded)		570610
PSEN sl-1.0p 2.1 (fully coded)		570611
Actuator		
PSEN sl-0.5p 1.1 (coded)	570520	
PSEN sl-0.5p 2.1 (fully coded)	570521	
PSEN sl-1.0p 1.1 (coded)		570620
PSEN sl-1.0p 2.1 (fully coded)		570621

Accessories for PSEN sl-0.5p and PSEN sl-1.0p
- PSEN sl bracket, standard mounting bracket (folding gate) 570550
- PSEN sl bracket, standard mounting bracket (sliding gate) 570551

Webcode 4898
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