

► Safety gate system PSENmlock

The safety gate system PSENmlock provides secure interlocking and secure guards for person and process protection up to the highest safety category PL e.



PSENm b 2.1

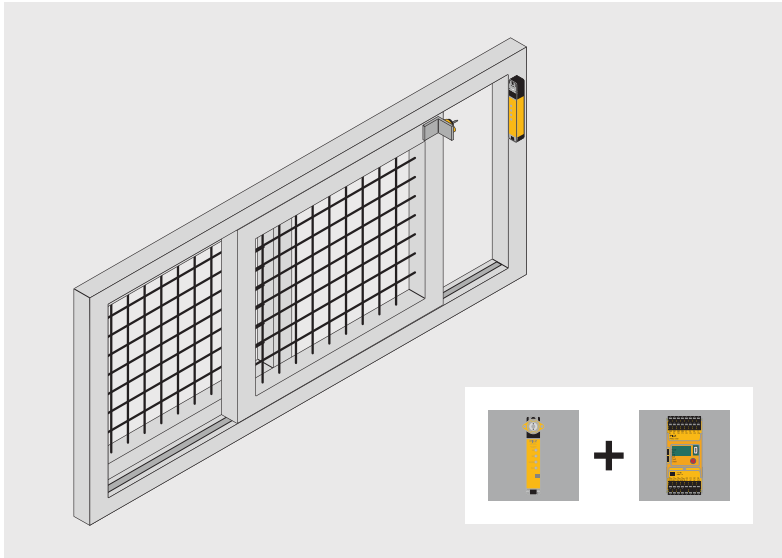
Safe interlocking with safe guard locking

PSENmlock – safe interlocking and guard locking in one product. The latter is enabled by the two-channel control of the guard locking. The switch is therefore especially suitable for machines with dangerous run-on, in which a safe guard locking is also necessary up to PL d or PL e. Because of LEDs on three sides of the housing, the diagnostics is visible in all three installation positions. The flexibly mounted actuator ensures a high tolerance compensation – even with sagging doors. The mechanical robustness and the robust housing make possible a long service life and protection for your investment. Combined with Pilz control technology, you receive a safe, complete solution for guard monitoring.

Type code for PSENmlock

PSENm b 1.1

Product area Pilz SENSors	Version	Coding
Product range ml – PSENmlock	b Base version	1.1 Coded
Operation <ul style="list-style-type: none"> ▶ Mechanical, coded ▶ Transponder (RFID) ▶ With safe semiconductor outputs 		2.1 Fully coded 2.2 Unique, fully coded



Your benefits at a glance


- ▶ Maximum safety:
 - Safe guard locking up to PL e
 - Safe interlocking up to PL e
- ▶ High guard locking force of 7 500 N
- ▶ Easily visible diagnostics: LEDs in three sides of the housing
- ▶ Compact design: Suitable, amongst other things, for all 40 mm profile designs
- ▶ Flexible actuator: For a high tolerance compensation – even with sagging gates
- ▶ No inadvertent activation of the guard locking by the integral restart interlock
- ▶ Long service life: Robust housing and mechanical robustness
- ▶ Energy efficient: Reduced power consumption in operation

Components for your safe solution	Order number
Sensor: PSEN ml b 2.1 unit	570402
Connection: PSEN cable axial, M12, 8-pin, 10 m	540321
Installation assistance: PSEN sl bracket sliding door	570492
Evaluation device: PNOZ m B0	772100
- Spring loaded terminals (1 set)	751008

The optimum solution: Monitoring a safety gate using the safety gate system PSENmlock and the configurable control system PNOZmulti 2.



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

 Webcode: web87732

Online information at www.pilz.com

► Selection guide – PSENmlock

Safety gate system PSENmlock

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
- ▶ Electrical data:
 - Supply voltage: 24 VDC
 - 2 outputs: semiconductor, max. 100 mA each
 - Signal output: 100 mA
 - 2 inputs: 0.5 A, 150 ms
 - Voltage tolerance: -15 ... +20 %
- ▶ Mechanical data:
 - Max. vertical offset: ± 3 mm
 - Max. lateral offset: ± 3 mm
 - Max. angular offset: $\pm 1.5^\circ$
 - Max. angular offset about the x-axis: $\pm 2^\circ$
 - Max. angular offset about the y-axis: $\pm 2.5^\circ$
 - Max. angular offset about the z-axis: $\pm 7.5^\circ$
 - Max. offset in the closing direction: ± 2 mm
 - Integral latching force: 30 N
 - Protection type: IP67
- ▶ Type of coding:
 - Coded (Version 1.1)
 - Fully coded (Version 2.1)
 - Unique, fully coded (Version 2.2)



PSEN ml b 2.1 unit



PSEN ml b 2.1 switch



PSEN ml b 2.1 actuator


Type (switch/actuator)	Holding force
PSEN ml b 1.1 unit	7 500 N
PSEN ml b 1.1 switch	
PSEN ml b 1.1 actuator	
PSEN ml b 2.1 unit	
PSEN ml b 2.1 switch	
PSEN ml b 2.1 actuator	
PSEN ml b 2.2 unit	

Type of coding	Dimensions (H x W x D) in mm	Connection type (plug)	Order number
Coded	217.2 x 40 x 40	M12, 8-pin, pigtail	570 400 ¹⁾
Coded	217.2 x 40 x 40	M12, 8-pin, pigtail	570 401
Coded	63.5 x 40 x 67.2	-	570 480
Fully coded	217.2 x 40 x 40	M12, 8-pin, pigtail	570 402 ¹⁾
Fully coded	217.2 x 40 x 40	M12, 8-pin, pigtail	570 403
Fully coded	63.5 x 40 x 67.2	-	570 481
Unique, fully coded	217.2 x 40 x 40	M12, 8-pin, pigtail	570 404 ¹⁾


¹⁾ Set comprising switch and actuator



Cable and other accessories:

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