

► Safety gate system PSENSlock

The safety gate system PSENSlock offers secure safety gate monitoring based on the non-contact, coded safety switch with electromagnetic process guarding of 500 N or 1000 N (BG GS-ET 19).



Stringent protection of human and machine

PSENSlock is a safe alternative to existing mechanical technology for safety gate monitoring. 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.

Whether separately or in series, PSENSlock is configured for the highest categories in safety gate monitoring.

Save time and costs during commissioning

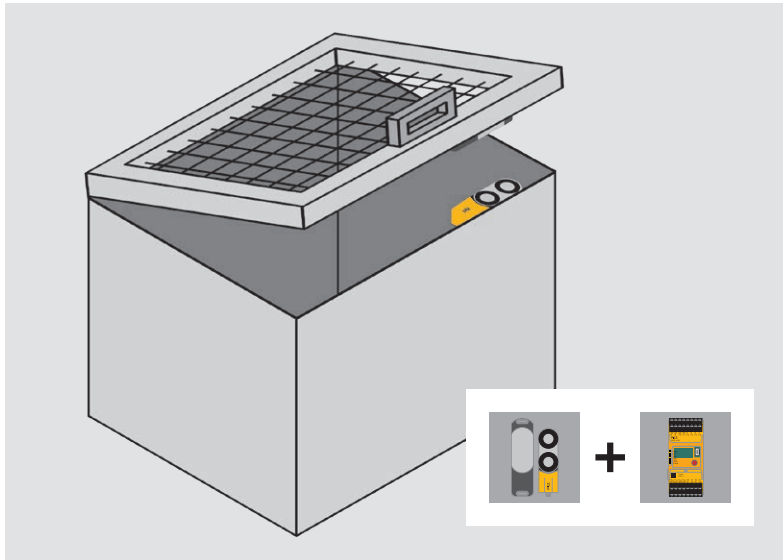
Thanks to its different assembly directions, PSENSlock can be installed and commissioned quickly and easily. It is optimized for mounting on the popular 45 mm profiles.

With the free-moving anchor plate (free moving actuator), even gates requiring high tolerances can be monitored and locked.

Type code for PSENSlock

PSEN sl-1.0fm p 2.2

Product area Pilz SENSors	Magnetic force	Actuator	Connection	Coding/Firmware	Material
Product group sl – PSENSlock	0.5 500 N 1.0 1000 N	fm Free moving	p Connector, M12, 8-pin (series connection integrated in sensor) n Connector, M12, 5-pin	1.1 Basic software, coded 2.1 Basic software, fully coded 2.2 Basic software, unique, fully coded 3.1 OSSDs independent of guard locking, coded 4.1 OSSDs independent of guard locking, fully coded 4.2 OSSDs independent of guard locking, unique, fully coded 6.1 Extended diagnostic functions, fully coded	VA With stainless steel elements - Base plate - Connector
Operation ► Non-contact, coded ► Transponder (RFID) ► With safe semiconductor outputs					



Your benefits at a glance

- ▶ Secure safety gate monitoring for the highest safety requirements
- ▶ High availability for your plant:
 - Highest level of manipulation protection (coding)
 - Process protection via magnetic guard locking
- ▶ Rapid commissioning:
 - 4 assembly directions
 - Tolerant to gate misalignment
 - Flexible connection via connector
- ▶ User-friendly diagnostics via double-sided LED display
- ▶ Saves power, as the magnet on PSENSlock is optimized for energy efficiency

Components for your safe solution	Order number
Sensor: PSEN sl-1.0p 2.2/PSEN sl-1.0	570 602
Connection: PSEN cable, M12, 8-pin, 5 m	540 320
Evaluation device: PNOZ m B0	772 100
- Spring loaded terminals (1 set)	751 008

The optimum solution: guard locking on the flap using the safety gate system PSENSlock, evaluated using the configurable safe small controllers PNOZmulti 2.



PSENSlock with free-moving anchor plate (free-moving actuator)



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

Webcode:
web150408

Online information at www.pilz.com

► Selection guide – PSENslock

Safety gate system PSENslock with 8-pin connector

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 with magnetic guard locking for process protection tasks
- Series connection up to PL e of EN ISO 13849-1:
 - PSENcode, PSENslock with 5-pin connection for decentralized module PDP67 F8 DI ION
 - PSENslock and Pilz sensor technology with 8-pin connection for passive junction PDP67 F 4 code or PSEN Y junction (cable separator)
- Electrical data:
 - Supply voltage: 24 VDC
 - Voltage tolerance: -15 ... + 10 %
 - Outputs: 2 safety outputs and 1 signal output
- Mechanical data:
 - Vertical and lateral offset: +/- 3 or +/- 5 mm
 - Protection type: IP67



PSEN sl-0.5



PSEN sl-0.5 ... fm

PSEN sl-1.0p 1.1 VA/
PSEN sl-1.0

Type (switch/actuator)	Holding force
PSEN sl-0.5p 1.1/PSEN sl-0.5	500 N
PSEN sl-0.5p 1.1/PSEN sl-0.5fm ³⁾	500 N
PSEN sl-0.5p 2.1/PSEN sl-0.5	500 N
PSEN sl-0.5p 2.1/PSEN sl-0.5fm ³⁾	500 N
PSEN sl-0.5p 2.2/PSEN sl-0.5	500 N
PSEN sl-0.5p 2.2/PSEN sl-0.5fm ³⁾	500 N
PSEN sl-0.5p 3.1/PSEN sl-0.5	500 N
PSEN sl-0.5p 3.1/PSEN sl-0.5fm ³⁾	500 N
PSEN sl-0.5p 4.1/PSEN sl-0.5	500 N
PSEN sl-0.5p 4.1/PSEN sl-0.5fm ³⁾	500 N
PSEN sl-0.5p 4.2/PSEN sl-0.5	500 N
PSEN sl-0.5p 4.2/PSEN sl-0.5fm ³⁾	500 N
PSEN sl-0.5p 6.1/PSEN sl-0.5	500 N
PSEN sl-0.5p 6.1/PSEN sl-0.5fm ³⁾	500 N
PSEN sl-1.0p 1.1/PSEN sl-1.0	1 000 N
PSEN sl-1.0p 1.1/PSEN sl-1.0fm ³⁾	1 000 N
PSEN sl-1.0p 1.1 VA/PSEN sl-1.0	1 000 N
PSEN sl-1.0p 2.1/PSEN sl-1.0	1 000 N
PSEN sl-1.0p 2.1/PSEN sl-1.0fm ³⁾	1 000 N
PSEN sl-1.0p 2.2/PSEN sl-1.0	1 000 N
PSEN sl-1.0p 2.2/PSEN sl-1.0fm ³⁾	1 000 N
PSEN sl-1.0p 3.1/PSEN sl-1.0	1 000 N
PSEN sl-1.0p 3.1/PSEN sl-1.0fm ³⁾	1 000 N
PSEN sl-1.0p 4.1/PSEN sl-1.0	1 000 N
PSEN sl-1.0p 4.1/PSEN sl-1.0fm ³⁾	1 000 N
PSEN sl-1.0p 4.2/PSEN sl-1.0	1 000 N
PSEN sl-1.0p 4.2/PSEN sl-1.0fm ³⁾	1 000 N
PSEN sl-1.0p 6.1/PSEN sl-1.0	1 000 N
PSEN sl-1.0p 6.1/PSEN sl-1.0fm ³⁾	1 000 N

Type of coding	Power consumption ¹⁾	Dimensions (H x W x D) in mm		Connection type (connector)	Certification	Order number (unit) ²⁾
		Safety guard locking device	Actuator			
Coded ⁴⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570500
Coded ⁴⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570560
Fully coded ⁵⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570501
Fully coded ⁵⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570561
Unique, fully coded ⁶⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570502
Unique, fully coded ⁶⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570562
Coded ⁴⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570570
Coded ⁴⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570573
Fully coded ⁵⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570571
Fully coded ⁵⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570574
Unique, fully coded ⁶⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570572
Unique, fully coded ⁶⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570575
Fully coded ⁵⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570581
Fully coded ⁵⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570584
Coded ⁴⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570600
Coded ⁴⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570660
Coded ⁴⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570630
Fully coded ⁵⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570601
Fully coded ⁵⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570661
Unique, fully coded ⁶⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570602
Unique, fully coded ⁶⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570662
Coded ⁴⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570670
Coded ⁴⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570673
Fully coded ⁵⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570671
Fully coded ⁵⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570674
Unique, fully coded ⁶⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570672
Unique, fully coded ⁶⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570675
Fully coded ⁵⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570681
Fully coded ⁵⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 8-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570684

¹⁾ Gate locked ²⁾ Unit comprising switch and actuator ³⁾ Free-moving

⁴⁾ Switch accepts any PSENSlock actuator

⁵⁾ Switch accepts only one PSENSlock actuator, teach-in up to 8 times

⁶⁾ Switch accepts only one PSENSlock actuator, no teach-in facility

⁷⁾ FCC, IC and UL certification applies only to individual components contained within the set

EAC

FCC



UL
LISTED

Cable selection:

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

Webcode:
web150408

Online information at www.pilz.com

► Selection guide – PSENSlock

Safety gate system PSENSlock with 5-pin connector

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 with magnetic guard locking for process protection tasks
- Series connection up to PL e of EN ISO 13849-1:
 - PSENcode, PSENSlock with 5-pin connection for decentralized module PDP67 F8 DI ION
 - PSENSlock and Pilz sensor technology with 8-pin connection for passive junction PDP67 F 4 code or PSEN Y junction (cable separator)
- Electrical data:
 - Supply voltage: 24 VDC
 - Voltage tolerance: – 15 ... + 10 %
 - Outputs: 2 safety outputs and 1 signal output
- Mechanical data:
 - Vertical and lateral offset: +/- 3 or +/- 5 mm
 - Protection type: IP67



PSEN sl-0.5



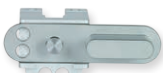
PSEN sl-0.5 ... fm

Type (switch/actuator)	Holding force
PSEN sl-0.5n 1.1/PSEN sl-0.5	500 N
PSEN sl-0.5n 1.1/PSEN sl-0.5fm ³⁾	500 N
PSEN sl-0.5n 2.1/PSEN sl-0.5	500 N
PSEN sl-0.5n 2.1/PSEN sl-0.5fm ³⁾	500 N
PSEN sl-0.5n 2.2/PSEN sl-0.5	500 N
PSEN sl-0.5n 2.2/PSEN sl-0.5fm ³⁾	500 N
PSEN sl-1.0n 1.1/PSEN sl-1.0	1 000 N
PSEN sl-1.0n 1.1/PSEN sl-1.0fm ³⁾	1 000 N
PSEN sl-1.0n 2.1/PSEN sl-1.0	1 000 N
PSEN sl-1.0n 2.1/PSEN sl-1.0fm ³⁾	1 000 N
PSEN sl-1.0n 2.2/PSEN sl-1.0	1 000 N
PSEN sl-1.0n 2.2/PSEN sl-1.0fm ³⁾	1 000 N

Accessories – safety gate system PSENSlock



PSEN sl bracket
sliding door



PSEN sl restart interlock

Description	Type
One-way screw to secure the actuator	
PSEN screw M5x20	
Mounting bracket for sensors	
PSEN sl bracket sliding door	
PSEN sl bracket swing door	
Reset lock	
PSEN sl restart interlock (padlock)	

Type of coding	Power consumption ¹⁾	Dimensions (H x W x D) in mm		Connection type (connector)	Certification	Order number (unit) ²⁾
		Safety guard locking device	Actuator			
Coded ⁴⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570503
Coded ⁴⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570563
Fully coded ⁵⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570504
Fully coded ⁵⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570564
Unique, fully coded ⁶⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570505
Unique, fully coded ⁶⁾	4.8 W	122 x 45 x 44	138 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570565
Coded ⁴⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570603
Coded ⁴⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570663
Fully coded ⁵⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570604
Fully coded ⁵⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570664
Unique, fully coded ⁶⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570605
Unique, fully coded ⁶⁾	7.2 W	172 x 45 x 44	188 x 52 x 23	M12, 5-pin	EAC, FCC ⁷⁾ , IC ⁷⁾ , TÜV, UL ⁷⁾	570665

¹⁾ Gate locked ²⁾ Unit comprising switch and actuator ³⁾ Free-moving

⁴⁾ Switch accepts any PSENSlock actuator

⁵⁾ Switch accepts only one PSENSlock actuator, teach-in up to 8 times

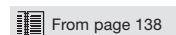
⁶⁾ Switch accepts only one PSENSlock actuator, no teach-in facility

⁷⁾ FCC, IC and UL certification applies only to individual components contained within the set

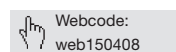


Features	Quantity	Order number
▶ Stainless steel ▶ Drive: one-way slot (safety screw) ▶ M5, 20 mm ▶ Suitable for PSEN sl	10	540312
For sliding gate	2	570551
For swing gate	1	570550
▶ Mechanical add-on module for attachment to PSEN sl-0.5 or PSEN sl-1.0 ▶ Enables up to 2 padlocks or carabiners to be attached to stop the door closing and to prevent the machine from restarting ▶ Certification: TÜV	1	570552

Cable selection:



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



Online information at www.pilz.com