

► Safety gate system PSENsgate

PSENsgate provides secure safety gate monitoring, protecting personnel and plant to the highest category PL e in one system.



Save time and components

You benefit from a high savings potential: use just one turnkey system and all your safety functions and control elements are integrated.

A number of new system types are available to select, with optional integratable control and operator elements such as pushbuttons, key switches, illuminated buttons, section stop, emergency stop or escape release.

Economical solution

When combined with safe control technology from Pilz, what you get is a complete safety gate monitoring solution that's safe and economical. It is also easy to connect in series with many other sensors PSENcode and PSENSlock. The robust design is another impressive feature of the PSENsgate.

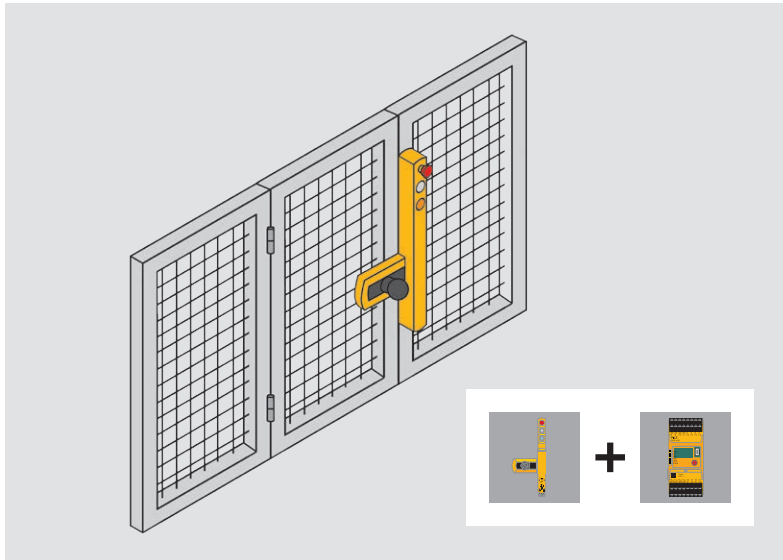
Type code PSENsgate

PSEN sg2c-5LPKLE-M12/5

Product area Pilz SENSors	Generation	Connection via	Design/elements	Operator elements/ emergency stop ¹⁾	Connection type ²⁾
Product group sg – PSENsgate	1 2	c Spring- loaded terminal, plug in	3 Short design, 3 elements 5 Long design, 5 elements	– Not present P Pushbutton L Illuminated pushbutton K Key switch B Key button S Section stop C Blind cover E E-STOP	– Not present M12/5 Connector, M12, 5-pin
Operation ► Mechanical, coded ► Transponder (RFID) ► With safe guard locking and safety gate monitoring					

¹⁾ Sequence: Key assignment from bottom to top

²⁾ Connection only for large design

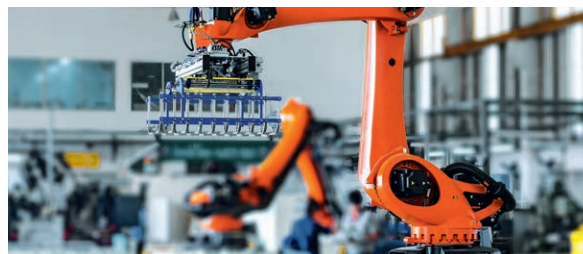


Components for your safe solution	Order number
Sensor: PSEN sg2c-3LPE	570 800
Connection: Cable, depending on function, e.g. 16 x 0.25 mm ²	-
Evaluation device: PNOZ m B0	772 100
- Spring loaded terminals (1 set)	751 008

The optimum solution: monitoring a safety gate using the safety gate system PSENsgate and the configurable safe small controllers PNOZmulti 2.

Your benefits at a glance

- ▶ Greater flexibility: large selection of different control and operating elements, e.g. key switches, emergency stops, plus the ability to connect enabling switches
- ▶ Maximum safety: just one switch per safety gate for personnel and plant protection up to PL e
- ▶ Engineering and costs are minimized: one product rather than several individual components
- ▶ Time saving: reduced installation and wiring effort thanks to a turnkey system with integratable control elements and emergency stop (optional)
- ▶ Simple assembly: for right and left-hinged gates
- ▶ For universal use: suitable for all 45 mm profiles
- ▶ Energy efficient: reduced current consumption (gate lock max. 2 W)



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Webcode:
web150407

Online information
at www.pilz.com

► Selection guide – PSENsgate

Safety gate system PSENsgate

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
- Series connection in combination with PSENsgate, PSENcode, PSENslock up to PL e of EN ISO 13849-1, SIL CL 3 of EN/IEC 62061:
 - With 8-pin connector via Y junction (cable separator) or PDP67 F 4 code
- Electrical data:
 - Supply voltage: 24 VDC
 - Outputs: 2 (semiconductor, each max. 500 mA)
 - Signal output: 500 mA
 - "Safe range" input (solenoid pin): 1.5 A, 150 ms
 - Power consumption depends on configuration (door locked): max. 2 W
 - Voltage tolerance: – 15/+ 10 %
- Mechanical data:
 - Vertical and lateral offset: +/- 5 or +/- 5 mm
 - Holding force, swing gate: 2 000 N
 - Connection type: plug-in spring-loaded terminals
 - Protection type: IP65/54
- Type of coding:
 - Coded
 - Unique, fully coded (Version 2.2)
- PSENsgate must be used in conjunction with the auxiliary release; the escape release is optional
- Scope: sensing device with pushbuttons including colored caps and escape release bar as well as actuator (bolt) for left or right-hinged doors



PSEN sg2c-3LPE



PSEN sg2c-5LPLLE

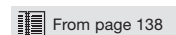
Type	No. of pushbuttons Emergency stop
► Short unit type	
PSEN sg2c-3LPE	1
PSEN sg2c-3LBE	1
PSEN sg2c-3LPS	-
PSEN sg2c-3LBS	-
PSEN sg2c-3LPC	-
PSEN sg2c-3LBC	-
PSEN sg2c-3LPE 2.2	1
► Long unit type	
PSEN sg2c-5LPLLE	1
PSEN sg2c-5LBLLE	1
PSEN sg2c-5LPLLS	-
PSEN sg2c-5LBLLS	-
PSEN sg2c-5LPLLC	-
PSEN sg2c-5LBLLC	-
PSEN sg2c-5LPLLE 2.2	1
► Long unit type: connection type M12, 5-pin	
PSEN sg2c-5LPKLE-M12/5	1
PSEN sg2c-5LBKLE-M12/5	1
PSEN sg2c-5LPKLS-M12/5	-
PSEN sg2c-5LBKLS-M12/5	-
PSEN sg2c-5LPKLC-M12/5	-
PSEN sg2c-5LBKLC-M12/5	-
PSEN sg2c-5LPKLE-M12/5 2.2	1
► Freely configurable unit type (2 freely assignable buttons)	
PSEN sg2c-5CCLLE	1

Section stop	Push-button	Key-operated pushbutton	Key switch	Dimensions (H x W x D) in mm	Type of coding	Certification	Order number
-	2	-	-	445 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570800
-	1	1	-	445 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570802
1	2	-	-	445 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570804
1	1	1	-	445 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570806
-	2	-	-	445 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570808
-	1	1	-	445 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570810
-	2	-	-	445 x 200 x 105	Unique, fully coded	FCC ¹⁾ , TÜV, UL ¹⁾	570880
-	4	-	-	546 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570812
-	3	1	-	546 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570814
1	4	-	-	546 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570816
1	3	1	-	546 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570818
-	4	-	-	546 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570820
-	3	1	-	546 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570822
-	4	-	-	546 x 200 x 105	Unique, fully coded	FCC ¹⁾ , TÜV, UL ¹⁾	570882
-	3	-	1	558.5 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570824
-	2	1	1	558.5 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570826
1	3	-	1	558.5 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570828
1	2	1	1	558.5 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570830
-	3	-	1	558.5 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570832
-	2	1	1	558.5 x 200 x 105	Coded	FCC ¹⁾ , TÜV, UL ¹⁾	570834
-	3	-	1	558.5 x 200 x 105	Unique, fully coded	FCC ¹⁾ , TÜV, UL ¹⁾	570884
-	-	-	-	555 x 200 x 108	Coded	FCC ¹⁾ , TÜV, UL	570836

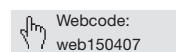
¹⁾ FCC and UL certification applies only to individual components contained within the set



Cable selection:



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Online information at www.pilz.com

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Accessories – safety gate system PSENsgate



PSEN sg escape
release pin



PSEN sg auxiliary
release pin



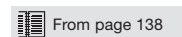
PSEN sg color covers
(pushbutton)

Description
Type
Escape release
PSEN sg escape release pin
Auxiliary release
PSEN sg auxiliary release pin
Cover
PSEN sg2 cover
Color control elements
PSEN sg color covers (pushbutton)
Connection cable 200 m
PSEN cable 200 m-8x0.25 mm²

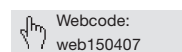
Features	Quantity	Order number
Certification: TÜV	1	570870
Certification: TÜV	1	570871
Certification: TÜV	1	570773
Certification: TÜV	6	570875
-	1	570793



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