Safety switches, safety bolts and safe hinge

PSENmech *PSENmag* *PSENcode* *PSENbolt* *PSENhinge*

… for safety gate and position monitoring

Pilz safety gate components are particularly economical in meeting the requirements of EN 1088. They are suitable for applications in mechanical engineering as well as in the packaging or pharmaceutical industry and many other sectors.

Safety switches – for safety gate and position monitoring at optimum cost

Safety switches are effective and optimized for cost. They are available with various designs and operating principles and can be used under difficult environmental conditions. Additional costs can be saved when connected in series.

Choose the optimum switch for your application:

- Mechanical – using increased extraction force on the actuator the PSENmech can prevent the safety gates from being opened unintentionally
- Non-contact, magnetic – the magnetic operation of the PSENmag is ideal for applications with the highest safety requirements
- Non-contact, coded – PSENcode offers the highest level of safety and manipulation protection with integrated evaluation in the smallest space possible

switches

Safety bolts – the robust, cost-effective solution for a rugged industrial environment

PSENbolt safety bolts are the ideal solution for safety gates that are difficult to adjust or are used in areas where safety gates are often opened and closed. What you get is a complete, economical package comprising safety switch, handle and bolt, for a rugged industrial environment.

Safe hinge switches – packaged hinge and safety switch

For hinged safeguards, safe hinge switches PSENhinge are a safe complete solution, comprising hinge and safety switch. Designed as one functional and installation unit, they offer a high level of flexibility in installation, connection and adjustment.

Selection guide – Safety switches, safety bolts and safe hinge switches

Type	Safety switches PSENmech	Safety switches PSENmag	Safety switches PSENcode	Safety bolts PSENbolt	Hinge switches PSENhinge
Operation	Mechanical	Non-contact, magnetic	Non-contact, coded	Mechanical	Mechanical
Application on guards					
Covers	◆	◆	◆	◆	
Flaps	◆	◆	◆	◆	◆
Hinged safety gates	◆	◆	◆	◆	◆
Sliding safety gates	◆	◆	◆	◆	
Rolling doors		◆	◆		
Position detection		◆	◆		
Manipulation protection	Normal	Normal	High	High [1)]	High
Guard locking	With/without	None	None	With [2)]	None
IP protection type	Up to IP65/IP67	IP67/IP69K	IP67	[3)]	IP67
Harsh environmental conditions	Suitable	Very suitable	Very suitable	Very suitable	Very suitable

[1)] When using non-contact, coded safety switches PSENcode
[2)] When using mechanical safety switches PSEN me1 with guard locking
[3)] Depending on the safety switch that is used

Keep up-to-date on safety switches, safety bolts and safe hinge switches:

Webcode 0307

Online information at www.pilz.com

Non-contact, coded safety switches PSEN

PSEN cs3.1a

PSEN cs4.1p

PSEN cs1.1p

… Highest level of manipulation protection in the smallest space

PSENcode are used to monitor the position of guards in accordance with EN 60947-5-3 and also for general position monitoring.

With PSENcode you have the smallest, coded safety switch with integrated evaluation and built-in manipulation protection.

PSENcode achieves the highest level of manipulation protection by transmitting a unique code from the actuator to the switch (key lock principle).

Simple implementation saves time and money

Save costs, from project configuration through to commissioning: Used in conjunction with Pilz control technology, PSENcode provide a complete, co-ordinated solution that's economical and safe.

Thanks to integrated evaluation and standard interfaces, PSENcode are open to products from other manufacturers. They fit perfectly into your environment and can be used to upgrade your plant.

Type code for PSENcode

PSEN cs2.13p

Product area Pilz SENsors	Coding/design	ATEX	Connection/design
Product range cs – PSENcode	1.1 Coded, large design	_ Without ATEX	a ▸ Large design: Not available ▸ Compact design: Cable, 5 m
Operation ▸ Non-contact, coded ▸ Transponder (RFID) ▸ With safe semiconductor outputs	**2.1 Fully coded, large design** 2.2 Unique, fully coded, large design 3.1 Coded, compact design 4.1 Fully coded, compact design 4.2 Unique, fully coded, compact design	**3 With ATEX**	b ▸ Large design: Not available ▸ Compact design: Cable, 10 m n ▸ Large design: Connector, M12, 5-pin ▸ Compact design: Connector, M12, 5-pin **p ▸ Large design: Connector, M12, 8-pin** **▸ Compact design: Connector, M8, 8-pin**