

PSENmag safety switches – The highest level of safety at the lowest price

pilz

Due to their non-contact operating mode, the safety switches PSEN ma1.4 are suitable for use anywhere there is heavy soiling. They can be used in combination with safe control technology.

Approved up to PL e of EN ISO 13849-1, SIL 3 of EN/IEC 62061 and Category 4 of EN 954-1, they meet the very highest safety requirements and offer a complete solution that's safe, approved and economical.

As well as the space-saving installation, the new safety switches PSENmag provide an operating distance of 3 or 10 mm and an additional signal contact with LED.

Your benefits at a glance

- Connected via a plug connection or with cable
- Flexible cable outlet, including connector, so there's no need for an angled connector
- Flexible mounting, both the sensor and the actuator support every conceivable mounting configuration
- Cost effective thanks to series connection
- Operating distance of 3 or 10 mm
- Additional signal contact and LED

PSENmag cable version available from May 2009 PSENmag connector version available from July 2009



Product range PSENmag







Maximum freedom

simple installation.

The compact design of the

PSENmag saves installation

space. Connector and cable for

all mounting and approach direc-

tions, plus an assured operating

distance of 3 or 8/10 mm, enable flexible assembly and rapid,

for installation

P

... highest level of safety at a low price

PSEN ma1.4a

Non-contact, magnetic safety switches are used to monitor the position of guards in accordance with EN 60947-5-3 and also for general position monitoring.

PSENmag gives you a costoptimized system comprising Pilz sensor and control system, including approval.



Non-contact magnetic safety switches PSEN

PSEN 1.2p

M12 housing

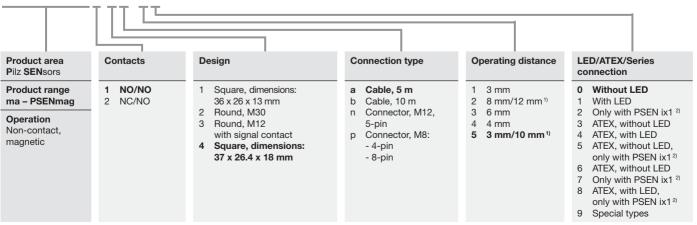
High requirements – implemented economically

PSENmag switches can be used where a high category is specified, where there is heavy soiling or where strict hygiene regulations need to be met.

The low wear and tear of the rugged, fully encapsulated housing, in conjunction with the non-contact, magnetic operating principle, guarantees a long product service life.

Type code for PSENmag

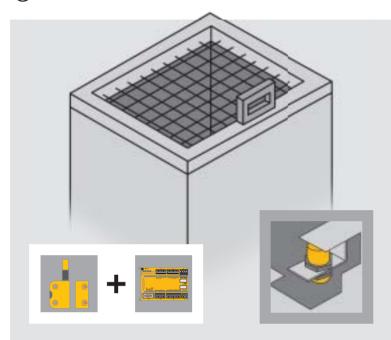
PSEN ma1.4a-50



¹⁾ Depends on the actuator ²⁾ $Ri = 0 \Omega$



mag



The optimum solution: Monitoring a cover using PSENmag safety switches and the control system PNOZmulti.

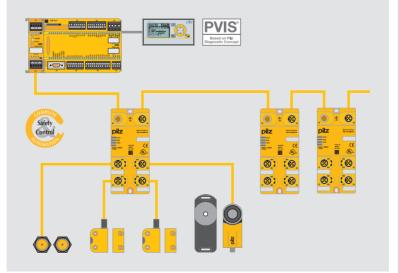
Your benefits at a glance

- Safe, complete solution with BG certification for the highest category applications
- Economical thanks to:
- Space and time-saving installation
- Series connection
- Long product service life as it is mechanically non-wearing
- User-friendly diagnostics via an additional signal contact and LED
- Insensitive to shock and vibration
- High level of safety, even in potentially explosive areas

Highest level of safety in series

Save time and costs! The decentralized periphery device PDP67 can be used to connect PSENmag and other sensors to the configurable control system PNOZmulti. Short, standard plug-in sensor cables provide fast, economical installation.

The IP67 housing also saves you space in the control cabinet. The high diagnostic capability of the PDP67 in conjunction with the configurable control system PNOZmulti provides efficient operation in an emergency.



Keep up-to-date on non-contact, magnetic safety switches PSENmag:

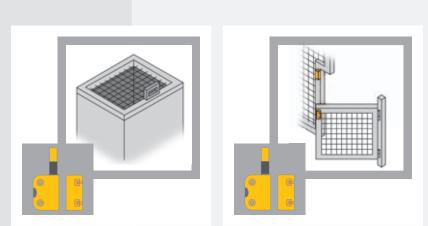
Webcode 0357

Online information at www.pilz.com

Non-contact magnetic safety switches PSENmag



Technical features	 Assured operating distance 3 Directions of actuation 1 Diagnostic interface W Series connection W Connection type M Contacts 2 3 	agnetic nm/10 mm thout or with LED th PSEN ix1 ale M8 connector, 4-pin 8-pin, 5 m cable V/O contacts or V/O contacts, of which auxiliary contact		
	Safety switch dimensions in mm (H 37 x 26.4 x 18	a fety switch dimensions in mm (H x W x D) 37 x 26.4 x 18		
	Actuator dimensions in mm (H x W ▶ 37 x 18 x 18	ctuator dimensions in mm (H x W x D) 37 x 18 x 18		
Order numbers (Safety switch/		Single connection	Series connection*	
actuator)	 ▶ S₈₀ = 3 mm, 5 m cable PSEN ma1.4a-50/PSEN ma1.4-03 PSEN ma1.4a-52/PSEN ma1.4-03 ▶ S₈₀ = 3 mm, 5 m cable, 	506320	506321	
	1 signal contact and LED PSEN ma1.4a-51/PSEN ma1.4-03 PSEN ma1.4a-57/PSEN ma1.4-03 ▶ S _{ao} = 3 mm, M8 connector, 4-pin	506324	506325	
	PSEN ma1.4p-50/PSEN ma1.4-03 PSEN ma1.4p-52/PSEN ma1.4-03 S _{ao} = 3 mm, M8 connector, 8-pin, 1 signal contact and LED	506332	506333	
	PSEN ma1.4p-51/PSEN ma1.4-03 PSEN ma1.4p-57/PSEN ma1.4-03 Sao = 10 mm, 5 m cable	506336	506337	
	PSEN ma1.4a-50/PSEN ma1.4-10 PSEN ma1.4a-52/PSEN ma1.4-10 ▶ S _{ao} = 10 mm, 5 m cable,	506322	506323	
	1 signal contact and LED PSEN ma1.4a-51/PSEN ma1.4-10 PSEN ma1.4a-57/PSEN ma1.4-10	506326	506327	
	 S_{ao} = 10 mm, M8 connector, 4-pin PSEN ma1.4p-50/PSEN ma1.4-10 PSEN ma1.4p-52/PSEN ma1.4-10 S_{ao} = 10 mm, M8 connector, 8-pin 	506334	506335	
	1 signal contact and LED PSEN ma1.4p-51/PSEN ma1.4-10 PSEN ma1.4p-57/PSEN ma1.4-10	, 506338	506 339	
	*) with PSEN ix1			



PSENmag safety switch for safety gate monitoring.

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