Mechanical safety switch PSENmech

The mechanical safety switch PSENmech is suitable for safe monitoring of a movable guard and can lock the safety gate securely.

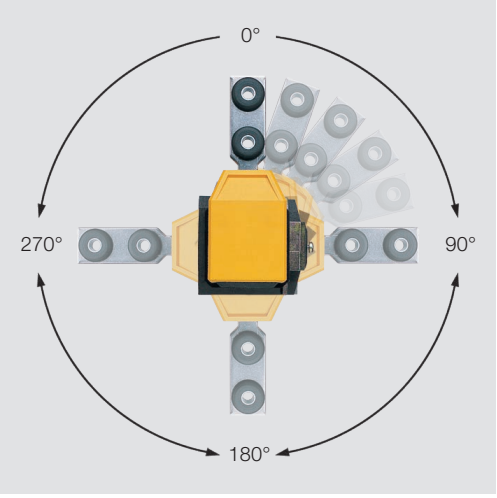


PSEN me1

PSENmech uses increased extraction force on the actuator to prevent the safety gate from being opened unintentionally. It complies with the standard EN 14119 due to its coded actuators.

Safety gate monitoring with guard locking guarantees the safety of persons or processes. One version of the mechanical safety switch PSEN me1 fulfils two safety functions:

- Avoids an unexpected start-up when PSEN me1 is unlocked or not closed
- Safety gate locked by the PSEN me1 while the motor speed is > 0

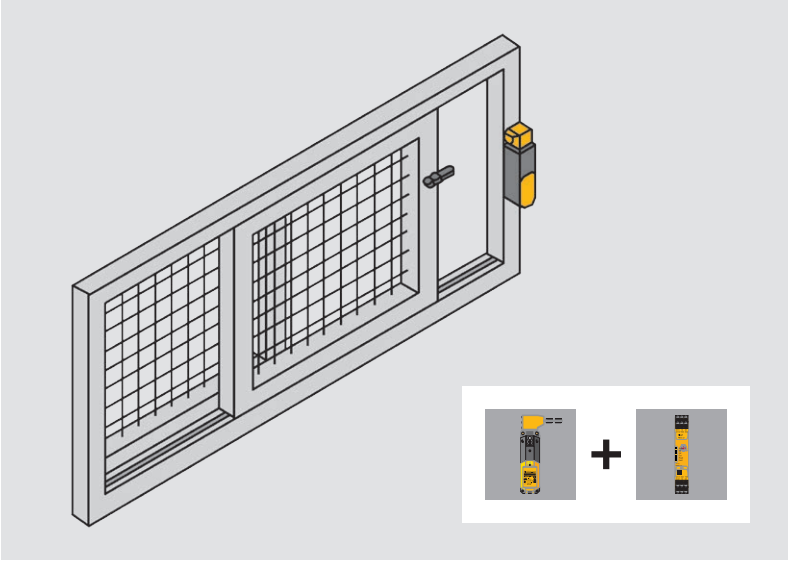


Universal actuation directions provide flexibility during installation.

Type code for PSENmech

PSEN me1.2S/1AR

Product area Pilz **SEN**sors	Product series	Series 1: Type of guard locking/ supply voltage	Series/actuator type
Product group me – PSENmech	**1 With guard locking, dimensions: 170 x 42.5 x 51 mm**	S Spring force, 24 VAC/DC (2 N/C, 2 N/O) **.2S Spring force, 110, 230 VAC (2 N/C, 2 N/O)** M Magnetic force, 24 VAC/DC (2 N/C, 2 N/O) .21S Spring force, 110, 230 VAC (3 N/C, 1 N/O)	1AS Standard, Series 1 **1AR Radius, Series 1**
Operation Mechanical			



Components for your safe solution	Order number
Sensor: PSEN me1M/1AS	570004
Connection: Cable, depending on function, e.g. 8 x 0.5 mm²	-
Evaluation device: PNOZ s3	751103

The optimum solution: monitoring sliding gates using the safety switch PSENmech and safety relay PNOZsigma.

Your benefits at a glance

- Safe, complete solution in conjunction with Pilz evaluation devices for applications with high safety requirements
- Flexibility and speed during installation due to:
  - Compact design
  - Radius or standard actuator
  - Up to 4 horizontal and 4 vertical approach directions
- Long product service life due to the robust design and high mechanical load capacity
- Suitable for a variety of applications due to the wide operating temperature range
- Housing is insensitive to dirt and dust and is also waterproof

Accessories – mechanical safety switch PSENmech

Description Type	Features	Quantity	Order number
One-way screw to secure the actuator	▸ Stainless steel ▸ Drive: one-way slot (safety screw)		
PSEN screw M4x16	▸ M4, 16 mm ▸ Suitable for PSEN me1/1AS and PSEN me4	10	540310
PSEN screw M5x20	▸ M5, 20 mm ▸ Suitable for PSEN me1/1AR, PSEN me2 and PSEN me3	10	540312

Cable selection:

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Keep up-to-date on mechanical safety switches PSENmech:

Webcode: web150414

Online information at www.pilz.com





Selection guide – PSENmech

Mechanical safety switch PSENmech with separate actuator and guard locking device

Common features

- Safety switch 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
- Can be connected to all Pilz evaluation devices
- Directions of actuation:
  - PSEN me1: 8
  - PSEN me3: 4
  - PSEN me4: 8
- Dimensions (H x W x D, excl. actuator) in mm:
  - PSEN me1: 170 x 42.5 x 51.0
  - PSEN me3: 90 x 52.0 x 33.0
  - PSEN me4: 100 x 31.0 x 30.5
- Ambient temperature:
  - PSEN me1: –25 … +70 °C/–13 … +158 °F
  - PSEN me3/me4: 0 … +80 °C/-22 … +176 °F
- Connection terminals:
  - PSEN me1: Spring-loaded terminals
  - PSEN me3/me4: Screw terminals
- Protection type:
  - PSEN me1: IP67
  - PSEN me3/me4: IP65



PSEN me1S/1AS



PSEN me3/2AR



PSEN me4/4AS

Type (switch/actuator)	Type of guard locking	Actuator type
Base versions		
PSEN me1S/1AS	Spring force	Standard
PSEN me1.2S/1AS	Spring force	Standard
PSEN me1S/1AR	Spring force	Radius
PSEN me1.2S/1AR	Spring force	Radius
PSEN me1M/1AS	Magnetic force	Standard
PSEN me1M/1AR	Magnetic force	Radius
PSEN me1.21S/1AR	Spring force	Radius
PSEN me3/2AS	-	Standard
PSEN me3.2/2AS	-	Standard
PSEN me3.2/2AR	-	Radius
PSEN me4.1/4AS	-	Standard
PSEN me4.2/4AS	-	Standard
Versions with additional M12, 8 or 5-pin plug-in connector		
PSEN me1.02S/AS M12	Spring force	Standard
PSEN me1.02S/AR M12	Spring force	Radius
PSEN me1.02M/AS M12	Magnetic force	Standard
PSEN me1.02M/AR M12	Magnetic force	Radius
PSEN me1.03M/AS n	Magnetic force	Standard

Contacts	Supply voltage/ contact load Utilization category AC-15	Auxiliary release	Holding force	Extraction force	Certification	Order number (Unit) [1]
2 N/C, 2 N/O	24 VAC/DC	◆	1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570000
2 N/C, 2 N/O	110 … 230 VAC	◆	1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570006
2 N/C, 2 N/O	24 VAC/DC	◆	1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570001
2 N/C, 2 N/O	110 … 230 VAC	◆	1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570007
2 N/C, 2 N/O	24 VAC/DC		1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570004
2 N/C, 2 N/O	24 VAC/DC		1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570005
3 N/C, 1 N/O	110 … 230 VAC	◆	1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570008
1 N/C, 1 N/O	240 V/3.0 A		-	10 N	CCC, CSA, DGUV, EAC	570210
2 N/C, 1 N/O	240 V/1.5 A		-	10 N	CCC, CSA, DGUV, EAC	570230
2 N/C, 1 N/O	240 V/1.5 A		-	10 N	CCC, CSA, DGUV, EAC	570232
2 N/C	240 V/3.0 A		-	10 N	CCC, CSA, DGUV, EAC	570245
2 N/C, 1 N/O	240 V/1.5 A		-	10 N	CCC, CSA, DGUV, EAC	570251
	24 VAC/DC	◆	1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570011
	24 VAC/DC	◆	1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570012
	24 VAC/DC		1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570013
	24 VAC/DC		1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570014
	24 VAC/DC		1500 N	min. 27 N	CCC, CSA, DGUV, EAC	570015

2 N/C contact
2 N/O contact

[1] Unit comprising switch and actuator

Cable selection:

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