

1533225

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Non-contact safety switch, sensor, up to Cat. 4, PL e (EN ISO 13849), SIL 3 (EN IEC 62061), design 4 (EN ISO 14119), low encoding level, 2 N/O contacts, flat design, 4-pos. M8 connector



Product description

The PSR-MIS non-contact safety switches offer a cost-optimized safety solution. The safety switches in this series use the proven magnetic switching principle for monitoring of movable guards and are easy to install.

Your advantages

- Cost-optimized safety switch
- Tried-and-tested magnetic switching principle
- Flat design
- Can be used with standard actuator and reinforced actuator
- M8 connection technology
- Spacer plates for mounting on ferrous material available as accessories

Commercial data

Item number	1533225
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNA643
GTIN	4067923003132
Weight per piece (including packing)	58 g
Weight per piece (excluding packing)	40 g
Country of origin	DE

Technical data

Product properties

Product type	Safety switches
Product family	PSR-MIS
Technology	Magnetic
Application	Safety door monitoring
	Position monitoring
Design in accordance with EN ISO 14119	4
Encoding level in accordance with EN ISO 14119	low

Insulation characteristics

Pollution degree	3
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Times

Response time	1 ms
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Switching intervals (Actuation position frontal)

Actuation setting	1 (frontal), see the "Actuation positions and travel directions" section in the data sheet
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Electrical properties

Sensor

Contact switching type	2 N/O contacts
Utilization category	DC12
Rated insulation voltage U_i	max. 75 V DC
	max. 50 V AC
Voltage	min. 0 V DC (SELV/PELV)
	max. 28.8 V DC (SELV/PELV)
Current	min. 0 mA
	max. 100 mA
Rated impulse withstand voltage	0.8 kV (U_{imp})
Switching frequency	max. 5 Hz
Resistance	22 Ω
Cable length	max. 30 m

Connection data

Conductor connection

Connection method	Connector
Connection technology	M8 connector
Contact connection type	Plug
Number of positions	4
Coding	A

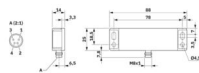
PSR-MIS-RL-S-NONO-M8-4P - Safety switch sensor



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Dimensions

Dimensional drawing	
Width	88 mm
Height	25 mm
Depth	14 mm

Material specifications

Color (Housing)	traffic yellow (RAL 1023)
Housing material	PBT

Characteristics

Safety data: EN ISO 13849-1

Category	4
Performance level (PL)	e

Safety data

Safety Integrity Level (SIL)	3
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Environmental and real-life conditions

Ambient conditions

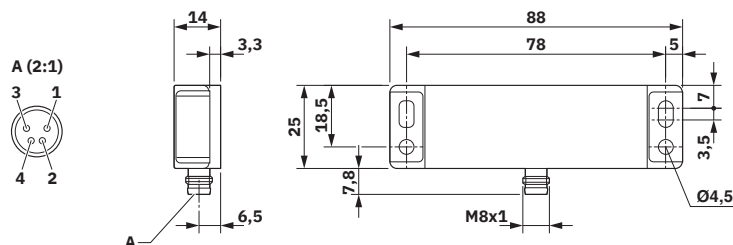
Degree of protection	IP67 (in combination with suitable mating connector)
Ambient temperature (operation)	-25 °C ... 75 °C (55°C, maximum, in combination with actuator PSR-MIS-RL-A-N (item no. 1533188))
Ambient temperature (storage/transport)	-25 °C ... 75 °C
Maximum altitude	≤ 2000 m (Above sea level)
Shock	30g, 11 ms
Vibration (operation)	10 Hz ... 55 Hz

Mounting

Mounting type	not flush
Assembly note	Note EN ISO 14119 max. tightening torque to secure: 1 Nm
Mounting position	any, sensor and actuator parallel to each other
Minimum distance	min. 50 mm (between two safety switching systems)

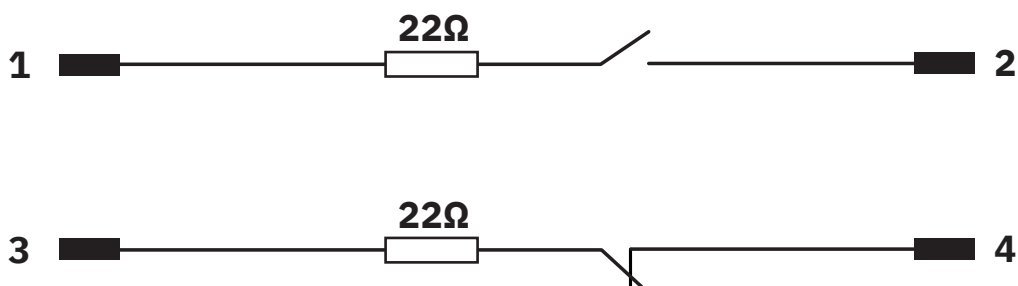
Drawings

Dimensional drawing



Dimensions (in mm)

Circuit diagram



Circuit diagram

PSR-MIS-RL-S-NONO-M8-4P - Safety switch sensor



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Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1533225>



ETLus

Approval ID: Industrial Component



cETL

Approval ID: Industrial component



Functional Safety

Approval ID: Z1002942900060Rev.00

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Classifications

ECLASS

ECLASS-13.0	27274401
ECLASS-15.0	27274401

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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