

PSR-MIS-C-S-NONC-M8-4P - Safety switch sensor



1533269

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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, 1 N/O contact, 1 N/C contact, round 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
- Round design
- Can be used with standard actuator and reinforced actuator
- M8 connection technology

Commercial data

Item number	1533269
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DNA641
GTIN	4067923002180
Weight per piece (including packing)	51 g
Weight per piece (excluding packing)	33 g
Country of origin	DE

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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	1 N/C contact, 1 N/O contact
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

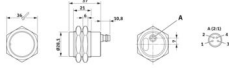
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Dimensions

Dimensional drawing	
Depth	37 mm
Diameter	28.1 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	IP65 (in combination with suitable mating connector)
Ambient temperature (operation)	-25 °C ... 75 °C
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 maximum tightening torque for mounting: Sensor: 10 Nm (mounting nut) Actuator: 2 Nm
Mounting position	any, sensor and actuator parallel to each other
Minimum distance	min. 50 mm (between two safety switching systems)

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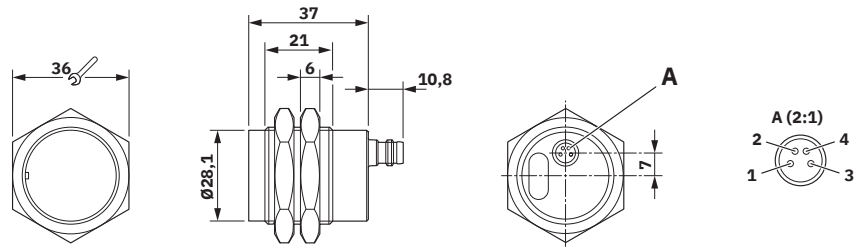


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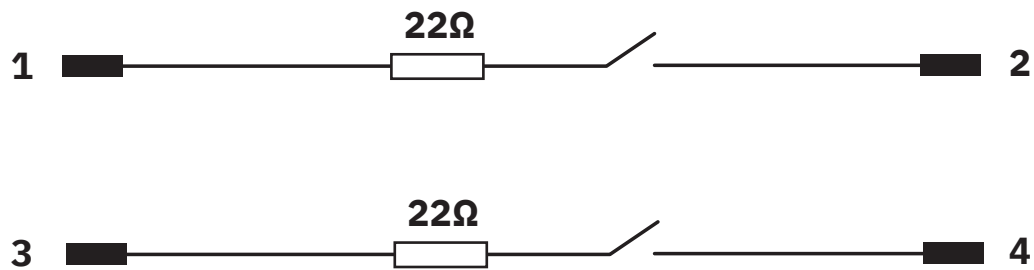
Drawings

Dimensional drawing



Dimensions (in mm)

Circuit diagram



Circuit diagram

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Approvals

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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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