

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



1533225

<https://www.phoenixcontact.com/us/products/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          |
| Sales key                            | DN04          |
| Product key                          | DNA643        |
| GTIN                                 | 4067923003132 |
| Weight per piece (including packing) | 52 g          |
| Weight per piece (excluding packing) | 40 g          |
| Customs tariff number                | 85365019      |
| Country of origin                    | DE            |

1533225

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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 |
|------------------|---|

### Times

|               |      |
|---------------|------|
| Response time | 1 ms |
|---------------|------|

### Switching intervals (Actuation position frontal)

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

### 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 $\Omega$                |
| 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            |

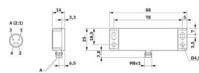
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## Dimensions

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| 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

|                        |   |
|------------------------|---|
| Performance level (PL) | e |
|------------------------|---|

Safety data

|                              |   |
|------------------------------|---|
| Safety Integrity Level (SIL) | 3 |
|------------------------------|---|

## Environmental and real-life conditions

Ambient conditions

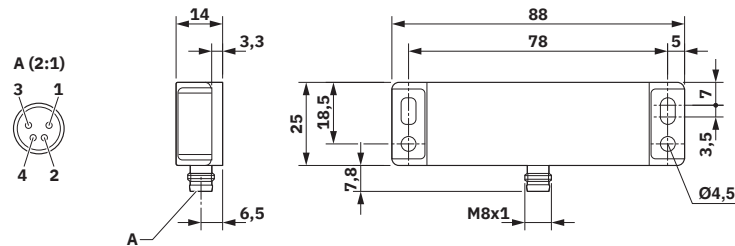
|                                         |                                                                                                  |
|-----------------------------------------|--------------------------------------------------------------------------------------------------|
| Degree of protection                    | 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<br>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)           |

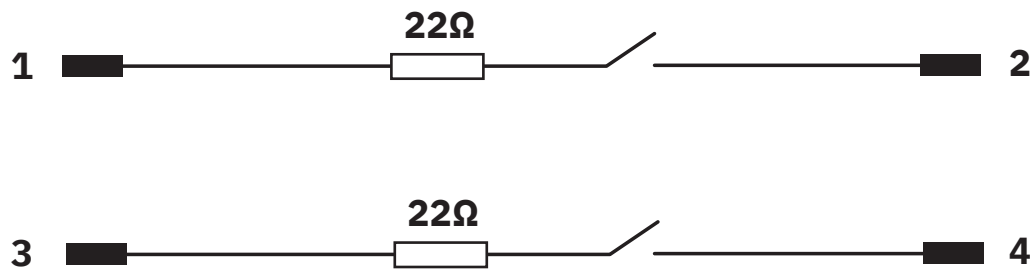
## Drawings

Dimensional drawing



Dimensions (in mm)

Circuit diagram



Circuit diagram

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## Approvals

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



**ETLus**

Approval ID: Industrial Component



**cETL**

Approval ID: Industrial component



**Functional Safety**

Approval ID: Z10029429 0060 Rev01

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27274401 |
| ECLASS-15.0 | 27274401 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002544 |
|-----------|----------|

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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-25                                                                                                                                                                                                                           |
|                                        | 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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