

1533189

<https://www.phoenixcontact.com/in/products/1533189>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

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, 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                          | 1533189       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Product key                          | DNA643        |
| GTIN                                 | 4067923003101 |
| 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 |
|------------------|---|

### 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              | 1 N/C contact, 1 N/O contact |
| Utilization category                | DC12                         |
| Rated insulation voltage $U_i$ (DC) | max. 75 V DC                 |
| Rated insulation voltage $U_i$ (AC) | 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            |

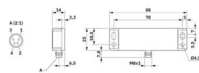
# PSR-MIS-RL-S-NONC-M8-4P - Safety switch sensor



1533189

<https://www.phoenixcontact.com/in/products/1533189>

## 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 |
|------------------------------|---|

## Environmental and real-life conditions

Ambient conditions

|                                         |                                                      |
|-----------------------------------------|------------------------------------------------------|
| Degree of protection                    | IP67 (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<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)           |

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

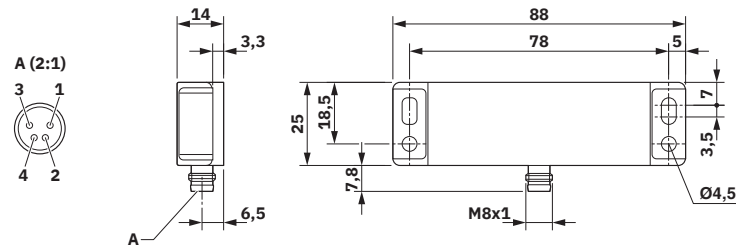


1533189

<https://www.phoenixcontact.com/in/products/1533189>

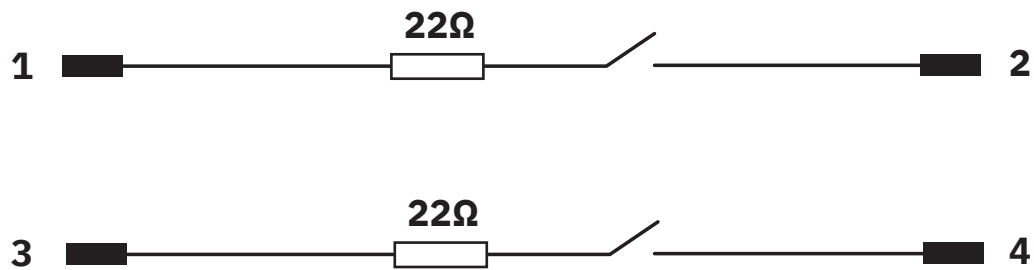
## Drawings

Dimensional drawing



Dimensions (in mm)

Circuit diagram



Circuit diagram

1533189

<https://www.phoenixcontact.com/in/products/1533189>

## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1533189>



**ETLus**

Approval ID: Industrial Component



**cETL**

Approval ID: Industrial component



**Functional Safety**

Approval ID: Z1002942900060Rev.00

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



1533189

<https://www.phoenixcontact.com/in/products/1533189>

## Classifications

### ECLASS

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

1533189

<https://www.phoenixcontact.com/in/products/1533189>

## 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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)