

RE23-SA03

RE2

NON-CONTACT SAFETY SWITCHES





Ordering information

| Туре | Part no. |
|-----------|----------|
| RE23-SA03 | 1061725 |

Other models and accessories → www.sick.com/RE2



Detailed technical data

Features

| System part | Sensor with actuator |
|---|----------------------|
| Sensor principle | Magnetic |
| N/O contacts | 2 |
| N/C contacts | 0 |
| Signaling contacts | 0 |
| Safe switch on distance \mathbf{S}_{ao} | 9 mm |
| Safe switch off distance S _{ar} | 22 mm |
| Active sensor surfaces | 1 |
| Actuation directions | 3 |

Safety-related parameters

| B _{10d} parameter | 2 x 10 ⁷ switching cycles (with small load) |
|------------------------------------|---|
| Туре | Type 4 (EN ISO 14119) |
| Actuator coding level | Low coding level (EN ISO 14119) |
| Safe state in the event of a fault | The switch has no internal fault detection and is unable to assume a safe state in the event of a fault. Fault detection is performed by the connected safety-related logic unit. |

Functions

Interfaces

| Connection type | Cable |
|---------------------------------------|-----------------------|
| Length of cable | 3 m |
| Cable diameter | 5.8 mm |
| Conductor cross section | 0.25 mm ² |
| Bend radius (with fixed installation) | > 12 x cable diameter |
| Bend radius (with moving cable) | > 15 x cable diameter |
| Cable material | PVC |
| Conductor material | Copper |
| Display elements | LEDs |

Electrical data

| Type of output | Reed contacts |
|-------------------|---------------|
| Switching voltage | ≤ 30 V DC |
| Switching current | ≤ 100 mA |

Mechanical data

| Design | Rectangular |
|------------------------|-----------------------|
| Dimensions (W x H x D) | 25 mm x 88 mm x 13 mm |
| Weight | 0.2 kg |
| Housing material | VISTAL® |

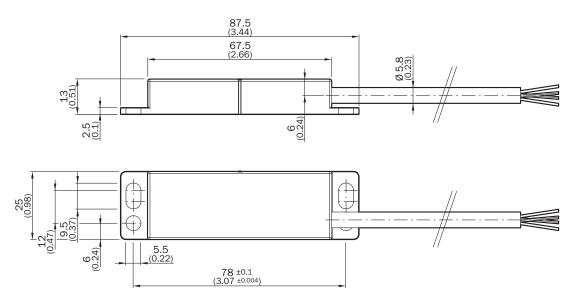
Ambient data

| Enclosure rating | IP67 (IEC 60529) |
|-------------------------------|----------------------------------|
| Ambient operating temperature | -30 °C +60 °C |
| Storage temperature | -30 °C +60 °C |
| Vibration resistance | 10 Hz 55 Hz, 1 mm (EN 60947-5-3) |
| Shock resistance | 30 g, 11 ms (EN 60947-5-3) |

Classifications

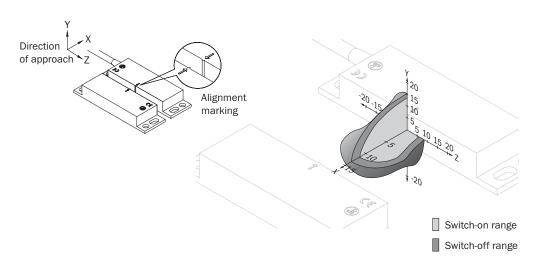
| ECLASS 5.0 | 27272402 |
|----------------|----------|
| ECLASS 5.1.4 | 27272402 |
| ECLASS 6.0 | 27272402 |
| ECLASS 6.2 | 27272402 |
| ECLASS 7.0 | 27272402 |
| ECLASS 8.0 | 27272402 |
| ECLASS 8.1 | 27272402 |
| ECLASS 9.0 | 27272402 |
| ECLASS 10.0 | 27272402 |
| ECLASS 11.0 | 27272402 |
| ECLASS 12.0 | 27274401 |
| ETIM 5.0 | EC002544 |
| ETIM 6.0 | EC002544 |
| ETIM 7.0 | EC002544 |
| ETIM 8.0 | EC002544 |
| UNSPSC 16.0901 | 39122205 |

Dimensional drawing (Dimensions in mm (inch))



Response range

RE23



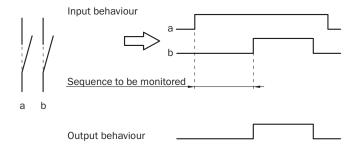
Pinouts

REx3: sensor connections (plug M8)



| 1 BN | N/O contact |
|------|--------------|
| 2 WH | N/O contact |
| 3 BU | N/O contact |
| 4 BK | Ny 0 contact |

Sensor timing



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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

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