



# RE13-SAC

RE1

NON-CONTACT SAFETY SWITCHES

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
RE13-SAC	1059503

Other models and accessories → [www.sick.com/RE1](http://www.sick.com/RE1)



## Detailed technical data

### Features

<b>System part</b>	Sensor and actuator
<b>Sensor principle</b>	Magnetic
<b>Number of N/O contacts</b>	2
<b>Number of N/C contacts</b>	0
<b>Number of signaling contacts</b>	0
<b>Safe switch on distance <math>S_{ao}</math></b>	7 mm
<b>Safe switch off distance <math>S_{ar}</math></b>	20 mm
<b>Active sensor surfaces</b>	1
<b>Actuation directions</b>	3

### Safety-related parameters

<b><math>B_{10d}</math> parameter</b>	$2 \times 10^7$ switching cycles (with small load)
<b>Type</b>	Type 4 (EN ISO 14119)
<b>Actuator coding level</b>	Low coding level (EN ISO 14119)
<b>Safe state in the event of a fault</b>	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

<b>Safe series connection</b>	With Flexi Loop (with diagnostics)
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### Interfaces

<b>Connection type</b>	Plug connector, M8, 4-pin
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### Electrical data

<b>Type of output</b>	Reed contacts
<b>Switching voltage</b>	$\leq 30$ V DC
<b>Switching current</b>	$\leq 100$ mA

### Mechanical data

<b>Design</b>	Rectangular
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<b>Dimensions (W x H x D)</b>	26 mm x 36 mm x 13 mm
<b>Weight</b>	0.1 kg
<b>Housing material</b>	Glass-fiber reinforced PPS

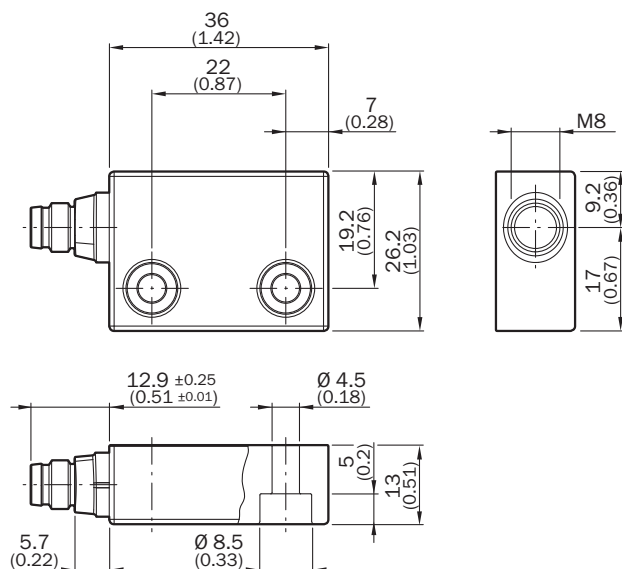
#### Ambient data

<b>Enclosure rating</b>	IP67 (IEC 60529)
<b>Ambient operating temperature</b>	-20 °C ... +60 °C
<b>Storage temperature</b>	-20 °C ... +60 °C
<b>Vibration resistance</b>	10 Hz ... 55 Hz, 1 mm (EN 60947-5-3)
<b>Shock resistance</b>	30 g, 11 ms (EN 60947-5-3)

#### Classifications

<b>ECI@ss 5.0</b>	27272402
<b>ECI@ss 5.1.4</b>	27272402
<b>ECI@ss 6.0</b>	27272402
<b>ECI@ss 6.2</b>	27272402
<b>ECI@ss 7.0</b>	27272402
<b>ECI@ss 8.0</b>	27272402
<b>ECI@ss 8.1</b>	27272402
<b>ECI@ss 9.0</b>	27272402
<b>ECI@ss 10.0</b>	27272402
<b>ECI@ss 11.0</b>	27272402
<b>ETIM 5.0</b>	EC002544
<b>ETIM 6.0</b>	EC002544
<b>ETIM 7.0</b>	EC002544
<b>UNSPSC 16.0901</b>	39122205

#### Dimensional drawing (Dimensions in mm (inch))



1 BN	N/O contact
2 WH	
3 BU	N/O contact
4 BK	

Input behaviour

a b

Sequence to be monitored

Output behaviour

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

**For us, that is “Sensor Intelligence.”**

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)