

# RE13-SA03

RE1

**NON-CONTACT SAFETY SWITCHES** 





### Ordering information

Туре	Part no.
RE13-SA03	1059504

Other models and accessories → www.sick.com/RE1



#### Detailed technical data

#### **Features**

System part	Sensor with actuator
Sensor principle	Magnetic
Number of N/O contacts	2
Number of N/C contacts	0
Number of signaling contacts	0
Safe switch on distance S <sub>ao</sub>	7 mm
Safe switch off distance S <sub>ar</sub>	20 mm
Active sensor surfaces	1
Actuation directions	3

#### Safety-related parameters

B <sub>10d</sub> parameter	2 x 10 <sup>7</sup> 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**

Safe series connection	None, only individual wiring (with diagnostics)
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#### Interfaces

Connection type	Cable
Length of cable	3 m
Cable diameter	5.8 mm
Conductor cross section	0.25 mm <sup>2</sup>
Bend radius (with fixed installation)	> 12 x cable diameter
Bend radius (with moving cable)	> 15 x cable diameter
Cable material	PVC
Conductor material	Copper

#### Electrical data

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

#### Mechanical data

Design	Rectangular
Dimensions (W x H x D)	26 mm x 36 mm x 13 mm
Weight	0.2 kg
Housing material	VISTAL®

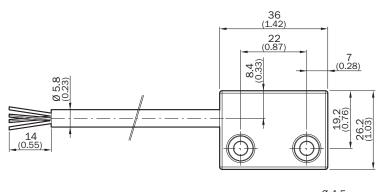
#### Ambient data

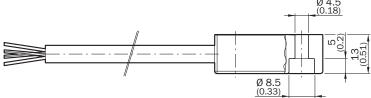
Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-30 °C +60 °C
Storage temperature	-30 °C +60 °C
Vibration resistance	10 Hz 55 Hz, 1 mm (EN 60947-5-3)
Shock resistance	30 g, 11 ms (EN 60947-5-3)

#### Classifications

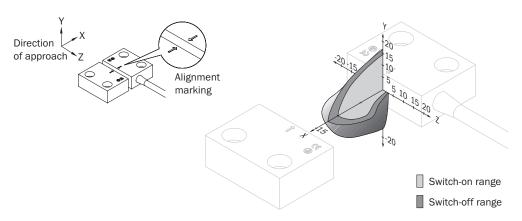
eCl@ss 5.0	27272402
eCl@ss 5.1.4	27272402
eCl@ss 6.0	27272402
eCl@ss 6.2	27272402
eCl@ss 7.0	27272402
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eCl@ss 8.1	27272402
eCl@ss 9.0	27272402
eCl@ss 10.0	27272402
eCl@ss 11.0	27272402
eCl@ss 12.0	27274401
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC 16.0901	39122205

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



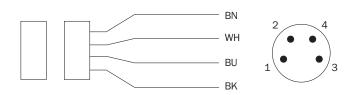


#### Response range



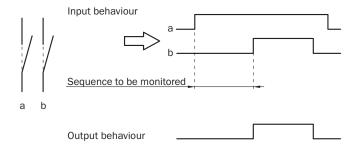
#### Pin assignment

REx3: sensor connections (plug M8)



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

## Sensor timing



## 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:**

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