RE13-SA03 RE1

NON-CONTACT SAFETY SWITCHES

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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 \mathbf{S}_{ao}	7 mm
Safe switch off distance S _{ar}	20 mm
Active sensor surfaces	1
Actuation directions	3

Safety-related parameters

B _{10d} parameter	2×10^7 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

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 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
Electrical data	

Type of output

Reed contacts

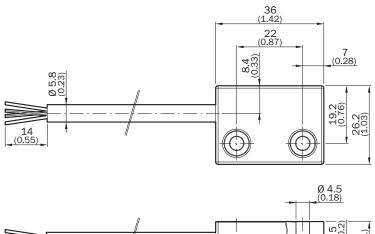
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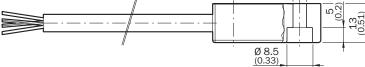
Switching voltage	≤ 30 V DC
Switching current	≤ 100 mA
Mechanical data	
Design	Rectangular
Dimensions (W x H x D)	26 mm x 36 mm x 13 mm
Weight	0.2 kg
Housing material	VISTAL®
Ambient data	
Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-30 °C +60 °C
Storage temperature	-30 °C +60 °C
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
eCl@ss 8.0	27272402
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

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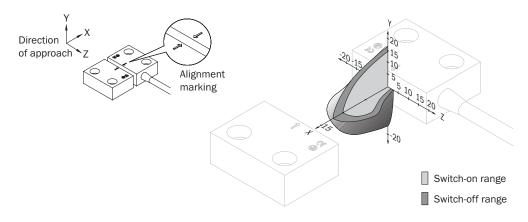
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Dimensional drawing (Dimensions in mm (inch))



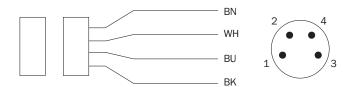


Response range



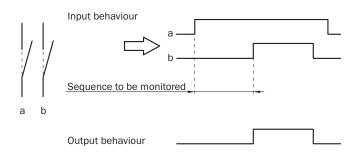
Pin assignment

REx3: sensor connections (plug M8)



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

Sensor timing



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For us, that is "Sensor Intelligence."

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