

RE21-SA03

RE2

NON-CONTACT SAFETY SWITCHES





Ordering information

Туре	Part no.
RE21-SA03	1059506

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



Detailed technical data

Features

System part	Sensor with actuator
Sensor principle	Magnetic
Number of N/O contacts	1
Number of N/C contacts	1
Number of signaling contacts	0
Safe switch on distance Sao	6 mm
Safe switch off distance S _{ar}	31 mm
Active sensor surfaces	1
Actuation directions	5

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

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
Display elements	LEDs

Electrical data

Type of output	Reed contacts
Switching voltage	≤ 30 V DC
Switching current	≤ 400 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®

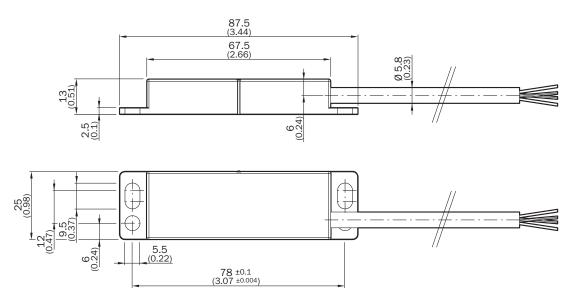
Ambient data

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

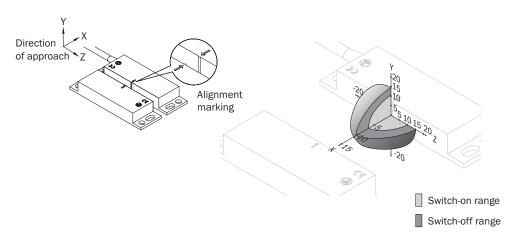
ECLASS 5.0	27272402
ECLASS 5.1.4	27272402
ECLASS 6.0	27272402
ECLASS 6.2	27272402
ECLASS 7.0	27272402
ECLASS 8.0	27272402
ECLASS 8.1	27272402
ECLASS 9.0	27272402
ECLASS 10.0	27272402
ECLASS 11.0	27272402
ECLASS 12.0	27274401
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544
UNSPSC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

Dimensional drawing (Dimensions in mm (inch))

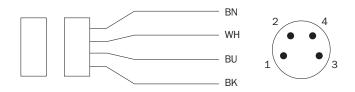


Response range

RE21

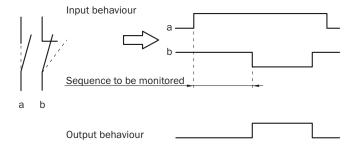


Pin assignment



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

Sensor timing



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