

RE13-SAC

RE1

NON-CONTACT SAFETY SWITCHES





Ordering information

Туре	Part no.
RE13-SAC	1059503

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



Detailed technical data

Features

System part	Sensor and 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 _{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 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.

Interfaces

Connection type	Plug connector, M8, 4-pin

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)	26 mm x 36 mm x 13 mm
Weight	0.1 kg
Housing material	Glass-fiber reinforced PPS

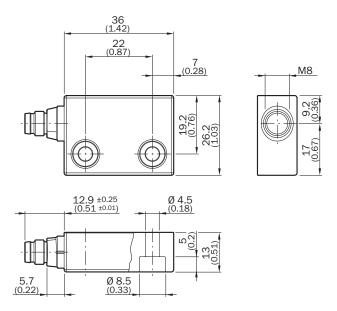
Ambient data

Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-20 °C +60 °C
Storage temperature	-20 °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)

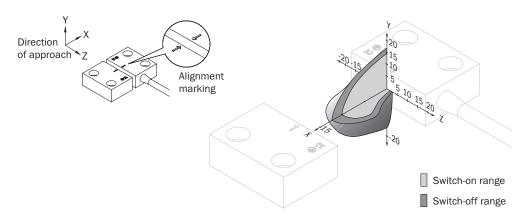
Classifications

ECI@ss 5.0	27272402
ECI@ss 5.1.4	27272402
ECI@ss 6.0	27272402
ECI@ss 6.2	27272402
ECI@ss 7.0	27272402
ECI@ss 8.0	27272402
ECI@ss 8.1	27272402
ECI@ss 9.0	27272402
ETIM 5.0	EC002544
ETIM 6.0	EC002544
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))



Response range



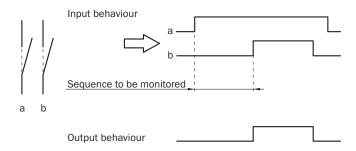
Connection diagram

REx3: sensor connections (plug M8)



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

Sensor timing



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