

RE21-SA84

RE2

NON-CONTACT SAFETY SWITCHES





Ordering information

Туре	part no.
RE21-SA84	1083850

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



Detailed technical data

Features

System part	Sensor with actuator
Sensor principle	Magnetic
N/O contacts	1
N/C contacts	1
Signaling contacts	0
Assured switch on distance \mathbf{S}_{ao}	6 mm
Assured 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 with M8 male connector, 4-pin
Length of cable	0.2 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
Coupling nut material	Nickel-plated brass
Display elements	LEDs

Electronics

Type of output	Reed contacts

Switching voltage	≤ 30 V DC
Switching current	≤ 400 mA

Mechanics

Design	Rectangular
Dimensions (W x H x D)	25 mm x 88 mm x 13 mm
Weight	0.1 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)

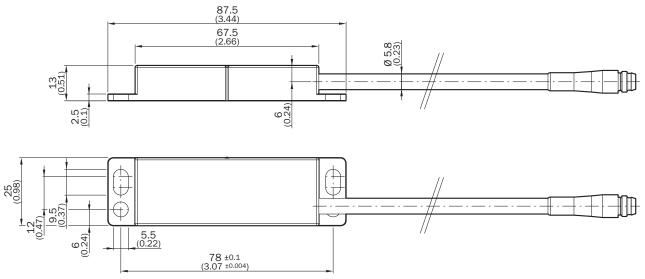
Classifications

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

Certificates

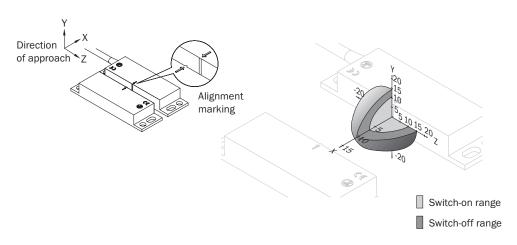
EU declaration of conformity	✓
UK declaration of conformity	✓
China-RoHS	✓
UK-Type-Examination approval	✓
cULus certificate	✓
TÜV approval	✓
TÜV approval annex	✓
EC-Type-Examination approval	✓

Dimensional drawing



Dimensions in mm (inch)

Response range RE21

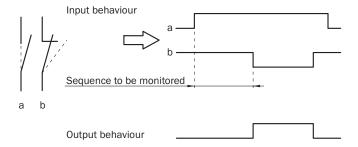


Pinouts



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

Sensor timing



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