RE13-SA84 RE1

**NON-CONTACT SAFETY SWITCHES** 

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THE LOW



RE13-SA84 | RE1

NON-CONTACT SAFETY SWITCHES



#### Ordering information

Туре	Part no.
RE13-SA84	1062539

Other models and accessories -> www.sick.com/RE1



Features		
System part	Sensor with actuator	
Sensor principle	Magnetic	
N/O contacts	2	
N/C contacts	0	
Signaling contacts	0	
Safe switch on distance ${\rm S}_{\rm ao}$	7 mm	
Safe switch off distance $\mathbf{S}_{\mathrm{ar}}$	20 mm	
Active sensor surfaces	1	
Actuation directions	3	
Safety-related parameters		
B <sub>10d</sub> parameter	$2 \times 10^7$ 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 connections	None, only individual wiring (with diagnostics)	
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 <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		
Coupling nut material	Nickel-plated brass	
Electrical data		

### Type of output

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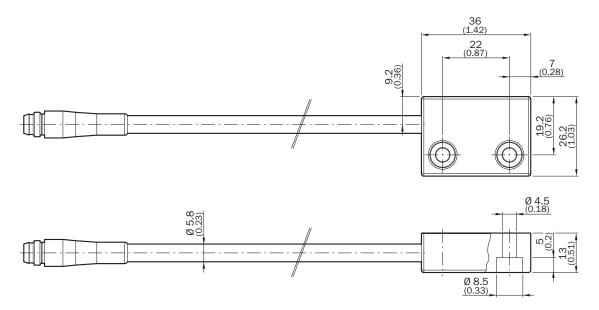
NON-CONTACT SAFETY SWITCHES

Switching current= 100 mAMechanical dataDesignRectangularDimensions (W x H x D)26 mm x 36 mm x 13 mmWeight0.1 kgHousing materialViSTaloHousing materialViSTaloAmbient operating temperature-30 °C +60 °CAmbient operating temperature-30 °C +60 °CStorage temperature-30 °C +60 °CStorage temperature0 12 55 Hz. 1 mm (EN 60947.5-3)Shock resistance00 f1 m.s (EN 60947.5-3)Storage temperature2722402ECLASS 5.027272402ECLASS 5.1.427272402ECLASS 5.1.427272402ECLASS 6.027272402ECLASS 6.027272402ECLASS 6.027272402ECLASS 6.027272402ECLASS 5.1.427272402ECLASS 5.1.427272402ECLASS 5.1.427272402ECLASS 5.1.427272402ECLASS 5.1.427272402ECLASS 5.1.427272402ECLASS 5.1.427272402ECLASS 5.1.427272402ECLASS 1.027272402ECLASS 1.02727402ECLASS 1.02727402ECLASS 1			
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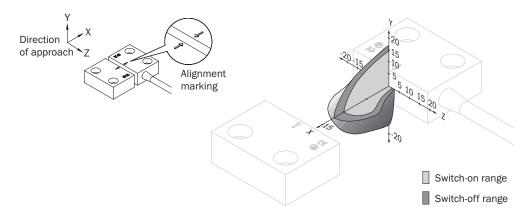
### **RE13-SA84 | RE1**

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



Response range



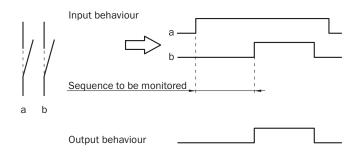
#### **Pinouts**

REx3: sensor connections (plug M8)



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

### Sensor timing



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