

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 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 <sub>ar</sub>	20 mm
Active sensor surfaces	1
Actuation directions	3

#### Safety-related parameters

B <sub>10d</sub> parameter	2 x 10 <sup>7</sup> 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 stat a fault. Fault detection is performed by the connected safety-related logic unit		

#### **Functions**

Safe series connection	With Flexi Loop (with diagnostics)
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#### Interfaces

Connection type	Plug connector, M8, 4-pin
Coupling nut material	Nickel-plated brass

### Electrical data

Type of output	Reed contacts
Switching voltage	≤ 30 V DC
Switching current	≤ 100 mA

### Mechanical data

ign	Rectangular
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Dimensions (W x H x D)	26 mm x 36 mm x 13 mm
Weight	0.1 kg
Housing material	VISTAL®

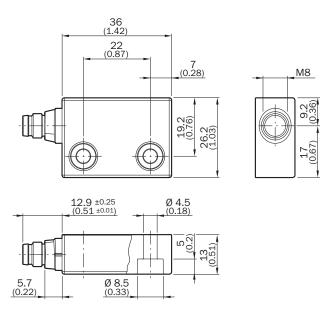
# Ambient data

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)

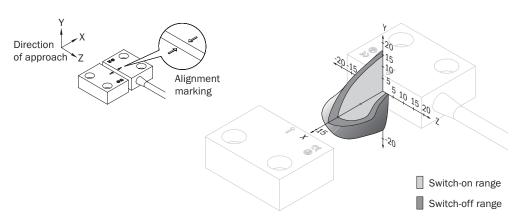
# Classifications

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

# Dimensional drawing (Dimensions in mm (inch))

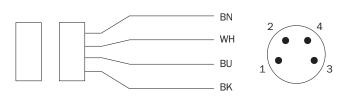


# Response range



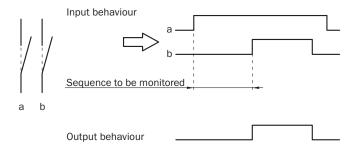
#### **Pinouts**

REx3: sensor connections (plug M8)



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

# Sensor timing



# Recommended accessories

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

	Brief description	Туре	Part no.		
Others	Others				
	<ul> <li>Connection type head A: Female connector, M8, 4-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 2 m, 4-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF8U14-020VA3XLEAX	2095888		
	<ul> <li>Connection type head A: Female connector, M8, 4-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 5 m, 4-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF8U14-050VA3XLEAX	2095889		
	<ul> <li>Connection type head A: Female connector, M8, 4-pin, straight, A-coded</li> <li>Connection type head B: Flying leads</li> <li>Signal type: Sensor/actuator cable</li> <li>Cable: 10 m, 4-wire, PVC</li> <li>Description: Sensor/actuator cable, unshielded</li> <li>Application: Zones with chemicals</li> </ul>	YF8U14-100VA3XLEAX	2095890		
Safety switch	ing amplifier				
	<ul> <li>Applications: Evaluation unit</li> <li>Compatible sensor types: Safety sensors with potential-free outputs</li> <li>Connection type: Front connector with spring terminals</li> <li>Restart interlock: yes</li> <li>External device monitoring (EDM): Integrated</li> <li>Outputs: 2 enabling current paths (safe), 2 application diagnostic outputs (not safe), 3 test pulse outputs (not safe)</li> <li>Housing width: 18 mm</li> </ul>	RLY3-EMSS100	1085345		
	<ul> <li>Applications: Evaluation unit</li> <li>Compatible sensor types: Safety sensors with potential-free outputs</li> <li>Connection type: Front connector with spring terminals</li> <li>Restart interlock: yes</li> <li>External device monitoring (EDM): Integrated</li> <li>Outputs: 3 enabling current paths (safe), 2 application diagnostic outputs (not safe), 3 test pulse outputs (not safe)</li> <li>Housing width: 18 mm</li> </ul>	RLY3-EMSS300	1099973		

Brief description	Туре	Part no.
<ul> <li>Applications: Evaluation unit for stop category 1 applications</li> <li>Compatible sensor types: Safety sensors with OSSDs, safety sensors with potential-free outputs</li> <li>Connection type: Front connector with spring terminals</li> <li>Restart interlock: yes</li> <li>External device monitoring (EDM): Integrated</li> <li>Outputs: 2 enabling current paths (safe), 1 release-delayed enabling current path, for stop category 1 applications (safe), 2 application diagnostic outputs (not safe), 3 test pulse outputs (not safe)</li> <li>Housing width: 18 mm</li> </ul>	RLY3-TIME100	1100688

# SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

# **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

