



SICK Sensor Intelligence.

NON-CONTACT SAFETY SWITCHES

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 2 Number of N/O contacts 0 Number of N/C contacts 0 Number of signaling contacts Safe switch on distance Sao 7 mm Safe switch off distance Sar 20 mm 1 Active sensor surfaces З **Actuation directions** Safety-related parameters **B_{10d}** parameter 2 x 10⁷ switching cycles (with small load) Type 4 (EN ISO 14119) Туре Low coding level (EN ISO 14119) Actuator coding level 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 With Flexi Loop (with diagnostics) Interfaces **Connection type** Plug connector, M8, 4-pin

Nickel-plated brass

Reed contacts ≤ 30 V DC

≤ 100 mA

Rectangular

Electrical data Type of output

Switching voltage Switching current

Mechanical data

Design

Coupling nut material

RE13-SAC | RE1

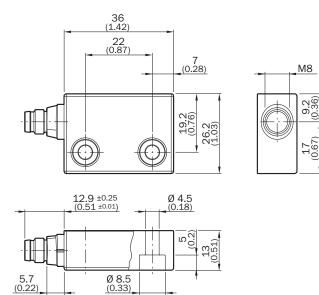
NON-CONTACT	SAFETY SWITCHES
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Dimensions (W x H x D)	26 mm x 36 mm x 13 mm
Weight	0.1 kg
Housing material	VISTAL®
Ambient data	
Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-30 °C +60 °C
Storage temperature	-30 °C +60 °C
Vibration resistance	10 Hz 55 Hz, 1 mm (EN 60947-5-3)
Shock resistance	30 g, 11 ms (EN 60947-5-3)
Classifications	
eCl@ss 5.0	27272402
eCl@ss 5.1.4	27272402
eCl@ss 6.0	27272402
eCl@ss 6.2	27272402
eCl@ss 7.0	27272402
eCl@ss 8.0	27272402
eCl@ss 8.1	27272402
eCl@ss 9.0	27272402
eCl@ss 10.0	27272402
eCl@ss 11.0	27272402
eCl@ss 12.0	27274401
ETIM 5.0	EC002544
ETIM 6.0	EC002544
ETIM 7.0	EC002544
ETIM 8.0	EC002544

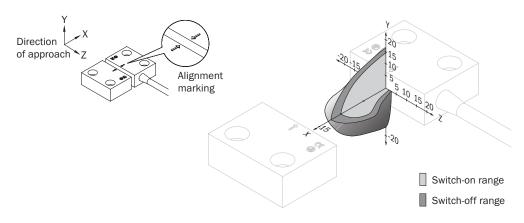
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UNSPSC 16.0901

Dimensional drawing (Dimensions in mm (inch))

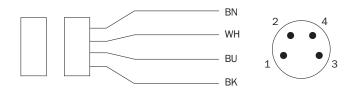


Response range



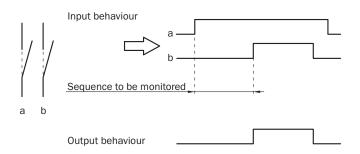
Pin assignment

REx3: sensor connections (plug M8)



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

Sensor timing



Recommended accessories

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

	Brief description	Туре	Part no.				
Plug connecto	Plug connectors and cables						
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U14-020VA3XLEAX	2095888				
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U14-050VA3XLEAX	2095889				
	Head A: female connector, M8, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF8U14-100VA3XLEAX	2095890				
Safety switching amplifier							
	 Applications: Evaluation unit Compatible sensor types: Safety sensors with potential-free outputs Connection type: Front connector with spring terminals Restart interlock: yes External device monitoring (EDM): Integrated Outputs: 2 enabling current paths (safe), 2 application diagnostic outputs (not safe), 3 test pulse outputs (not safe) Housing width: 18 mm 	RLY3-EMSS100	1085345				
	 Applications: Evaluation unit Compatible sensor types: Safety sensors with potential-free outputs Connection type: Front connector with spring terminals Restart interlock: yes External device monitoring (EDM): Integrated Outputs: 3 enabling current paths (safe), 2 application diagnostic outputs (not safe), 3 test pulse outputs (not safe) Housing width: 18 mm 	RLY3-EMSS300	1099973				
	 Applications: Evaluation unit for stop category 1 applications Compatible sensor types: Safety sensors with OSSDs, safety sensors with potential-free outputs Connection type: Front connector with spring terminals Restart interlock: yes External device monitoring (EDM): Integrated 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) Housing width: 18 mm 	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



Online data sheet

