



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



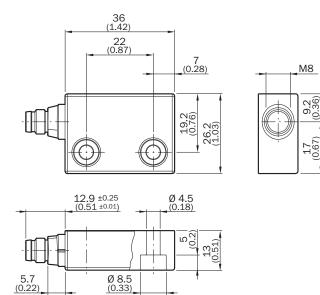
Detailed technical data

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 Active sensor surfaces 1 Actuation directions З Safety-related parameters **B_{10d} parameter** 2×10^7 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** With Flexi Loop (with diagnostics) Safe series connection Interfaces **Connection type** Plug connector, M8, 4-pin Electrical data Type of output Reed contacts Switching voltage ≤ 30 V DC ≤ 100 mA Switching current Mechanical data Design Rectangular Dimensions (W x H x D) 26 mm x 36 mm x 13 mm

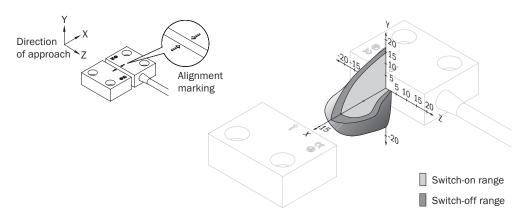
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Weight	0.1 kg
Housing material	VISTAL®
Ambient data	
Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-30 °C +60 °C
Storage temperature	-30 °C +60 °C
Vibration resistance	10 Hz 55 Hz, 1 mm (EN 60947-5-3)
Shock resistance	30 g, 11 ms (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
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))

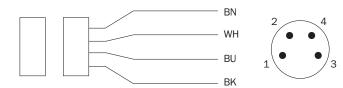


Response range



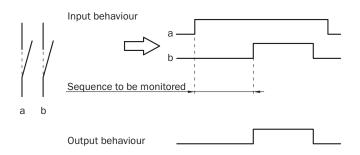
Pin assignment

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				
•	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Authorizations: UL Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U14-020VA3XLEAX	2095888		
	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Authorizations: UL Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U14-050VA3XLEAX	2095889		
	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Authorizations: UL Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	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		

Brief description

Brief description	Туре	Part no.
 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

