

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

reatures	
System part	Sensor with actuator
Sensor principle	Magnetic
N/O contacts	2
N/C contacts	0
Signaling contacts	0
Assured switch on distance S _{ao}	7 mm
Assured switch off distance S _{ar}	20 mm
Active sensor surfaces	1
Actuation directions	3

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 connections	None, only individual wiring (with diagnostics)
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Interfaces

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

Electronics

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

Mechanics

Design	Rectangular

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)

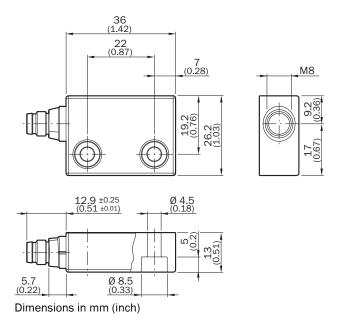
Certificates

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

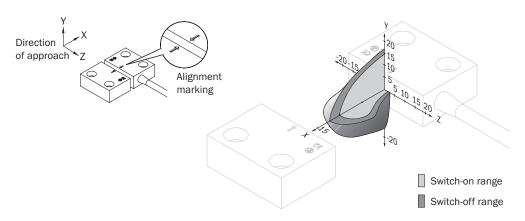
Classifications

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

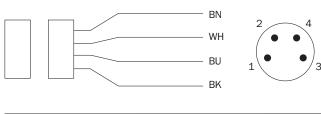
Dimensional drawing



Response range

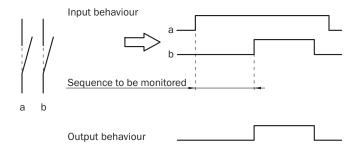


Pinouts REx3: sensor connections (plug M8)



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

Sensor timing



Recommended accessories

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

	Brief description	Туре	part no.	
connectors and cables				
	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF8U14-020VA3XLEAX	2095888	
W.	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF8U14-050VA3XLEAX	2095889	
	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF8U14-100VA3XLEAX	2095890	
	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 0.6 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF8U14- C60VA3XLEAX	2145852	
	 Connection type head A: Female connector, M8, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 1 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF8U14-010VA3XLEAX	2145853	

	Brief description	Туре	part no.
Safety relays			
The state of the s	 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
WHARING THE PROPERTY OF THE PR	 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
THE REAL PROPERTY OF THE PROPE	 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

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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."

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