

SICK Sensor Intelligence.

**NON-CONTACT SAFETY SWITCHES** 

### RE23-SAC | RE2 NON-CONTACT SAFETY SWITCHES



#### Ordering information

Туре	Part no.
RE23-SAC	1059508

Other models and accessories -> www.sick.com/RE2

#### Detailed technical data

Features		
System part	Sensor with actuator	
Sensor principle	Magnetic	
N/O contacts	2	
N/C contacts	0	
Signaling contacts	0	
Safe switch on distance $S_{ao}$	9 mm	
Safe switch off distance S <sub>ar</sub>	22 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 state in the event of a fault. Fault detection is performed by the connected safety-related logic unit.	
Functions		
Safe series connections	With Flexi Loop (with diagnostics)	
Interfaces		
Connection type	Plug connector, M8, 4-pin	
Coupling nut material	Nickel-plated brass	
Display elements	LEDs	
Electronics		
Type of output	Reed contacts	
Switching voltage	≤ 30 V DC	
Switching current	≤ 100 mA	
Mechanics		
Design	Rectangular	

# RE23-SAC | RE2

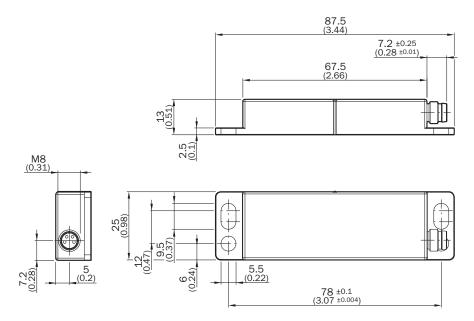
NON-CONTACT SAFETY SWITCHES

Dimensions (W x H x D)	25 mm x 88 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

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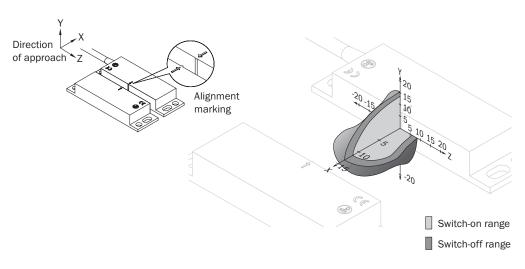
NON-CONTACT SAFETY SWITCHES

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



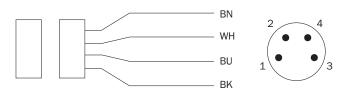
#### Response range

#### RE23



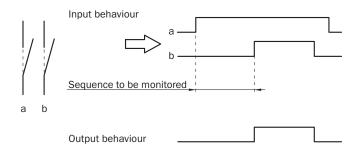
#### Pinouts

REx3: sensor connections (plug M8)



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

### Sensor timing



#### Recommended accessories

Other models and accessories → www.sick.com/RE2

	Brief description	Туре	Part no.		
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, Uncontaminated zones</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, Uncontaminated zones</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, Uncontaminated zones</li> </ul>	YF8U14- 100VA3XLEAX	2095890		

	Brief description	Туре	Part no.	
Safety swite	Safety switching 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	
	<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



Online data sheet

