



NON-CONTACT SAFETY SWITCHES



RE31-DA05 | RE11/RE21/RE31

NON-CONTACT SAFETY SWITCHES



Ordering information

Туре	Part no.
RE31-DA05	6035618

Other models and accessories -> www.sick.com/RE11_RE21_RE31



Detailed technical data

Features	
System part	Sensor with actuator
Sensor principle	Magnetic
N/O contacts	1
N/C contacts	1
Safe switch on distance S_{ao}	6 mm
Safe switch off distance S _{ar}	17 mm
Active sensor surfaces	1
Actuation directions	5
Safety-related parameters	
B _{10d} parameter	2×10^7 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)
Interfaces	
Connection type	Cable
Length of cable	5 m
Cable material	PVC
Electrical data	
Type of output	Reed contacts
Switching voltage	≤ 30 V DC
Switching current	≤ 400 mA
Mechanical data	
Design	Cylindrical
Housing diameter	M30
Weight	+ 0.365 kg
Housing material	Glass-fiber reinforced PPS

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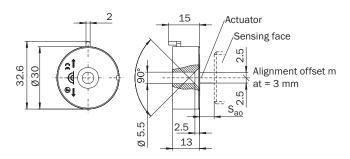
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Ambient data

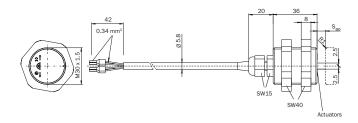
Enclosure rating	IP67
Ambient operating temperature	-20 °C +60 °C
Storage temperature	-20 °C +60 °C
Vibration resistance	10 Hz 55 Hz, 1 mm (EN 60947-5-3)
Shock resistance	30 g, 11 ms (EN 60947-5-3)
Classifications	
ECLASS 5.0	27272402
ECLASS 5.1.4	27272402
ECLASS 6.0	27272402
ECLASS 6.2	27272402
ECLASS 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))

Actuator



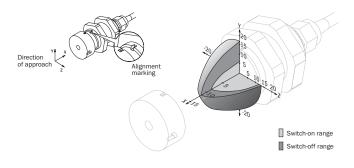
sensor



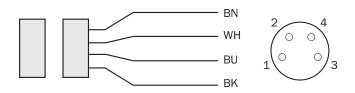
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Response range

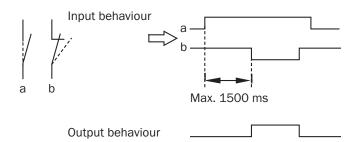


Pinouts



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

Sensor timing



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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."

WORLDWIDE PRESENCE:

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Online data sheet

