



i12-SA205 i12S

ELECTRO-MECHANICAL SAFETY SWITCHES





Ordering information

Туре	Part no.
i12-SA205	1064506

The actuator has to be ordered separately. See "Accessories" for further details.

Other models and accessories → www.sick.com/i12S

actuator not supplied with delivery



Detailed technical data

Features

Number of positive action N/C contacts	2
Number of N/O contacts	0
Retaining force	≤ 6 N
Actuation frequency	≤ 7,200 /h
Actuation directions	5
Approach speed	≤ 10 m/min

Safety-related parameters

B _{10d} parameter	2 x 10 ⁶ switching cycles (with small load)
Туре	Type 2 (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 connection	With Flexi Loop (with diagnostics)
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Interfaces

Connection type	Plug connector, M12, 4-pin
Coupling nut material	Plastic

Electrical data

Switching principle	Slow action switching element
Usage category	DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	2 A (24 V DC)
Rated insulation voltage U _i	32 V
Rated impulse withstand voltage U _{imp}	1,500 V

Short-circuit protection	2 A
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	≥ 5 mA (5 V DC)

Mechanical data

Weight	0.08 kg
Housing material	Glass-fiber reinforced thermoplastic
Mechanical life	1 x 10 ⁶ switching cycles

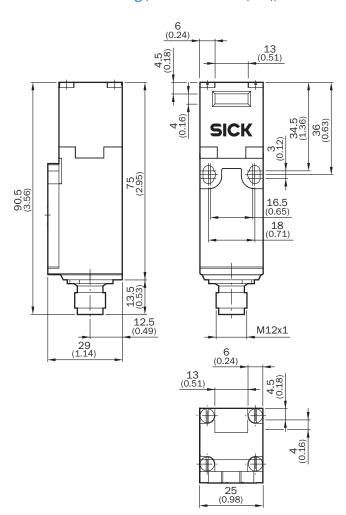
Ambient data

Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-20 °C +80 °C
Storage temperature	-20 °C +80 °C

Classifications

eCl@ss 5.0	27272602
eCl@ss 5.1.4	27272602
eCl@ss 6.0	27272602
eCl@ss 6.2	27272602
eCl@ss 7.0	27272602
eCl@ss 8.0	27272602
eCl@ss 8.1	27272602
eCl@ss 9.0	27272602
eCl@ss 10.0	27272602
eCl@ss 11.0	27272602
eCl@ss 12.0	27272602
ETIM 5.0	EC002592
ETIM 6.0	EC002592
ETIM 7.0	EC002592
ETIM 8.0	EC002592
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))



Pin assignment

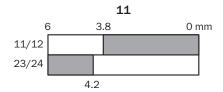


1	positive action N/C
	contacte 11/12

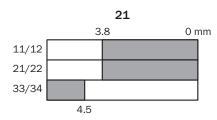
positive action N/C contacts 21/22

Actuator travel diagram

Contact action over the entire actuator withdrawl distance (full insertion = 0 mm)

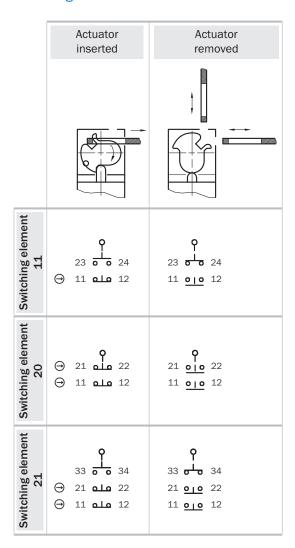






- □ Contacts open
- Contacts closed

Switching elements



Switching element 11:

1 positive action N/C contact + 1 N/O contact

Switching element 20:

2 positive action N/C contacts

Switching element 21:

2 positive action N/C contacts + 1 N/O contact

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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.

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