

i12-SB213 i12S

ELECTRO-MECHANICAL SAFETY SWITCHES





Ordering information

Туре	Part no.
i12-SB213	6025059

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

i catares	
Positive action N/C contacts	2
N/O contacts	1
Retaining force	≤ 15 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 connections	None, only individual wiring (with diagnostics)

Interfaces

Connection type	Cable gland, 1 x M16
Conductor cross section	≤ 1.5 mm²

Electrical data

Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	3 A (240 V AC) 2 A (24 V DC)
Rated insulation voltage \mathbf{U}_{i}	240 V
Rated impulse withstand voltage U _{imp}	2,500 V AC

Short-circuit protection	T10/10A
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	5 mA (5 V DC)

Mechanical data

Weight	0.11 kg
Housing material	Glass-fiber reinforced thermoplastic
Mechanical life	1 x 10 ⁶ switching cycles

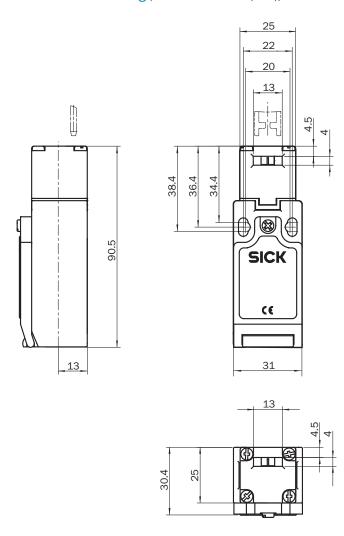
Ambient data

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

Classifications

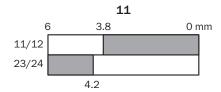
ECLASS 5.0	27272602
ECLASS 5.1.4	27272602
ECLASS 6.0	27272602
ECLASS 6.2	27272602
ECLASS 7.0	27272602
ECLASS 8.0	27272602
ECLASS 8.1	27272602
ECLASS 9.0	27272602
ECLASS 10.0	27272602
ECLASS 11.0	27272602
ECLASS 12.0	27272602
ETIM 5.0	EC002592
ETIM 6.0	EC002592
ETIM 7.0	EC002592
ETIM 8.0	EC002592
UNSPSC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

Dimensional drawing (Dimensions in mm (inch))

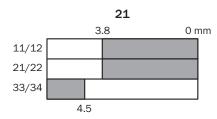


Actuator travel diagram

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

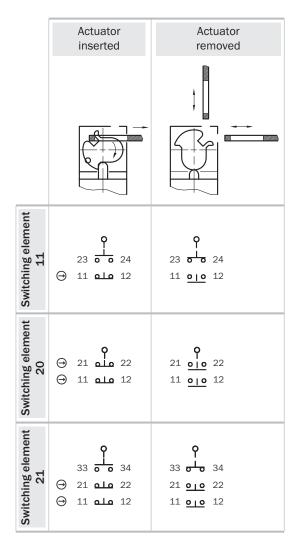






- ☐ Contacts open
- Contacts closed

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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