

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

1 Catalog	
Number of positive action N/C contacts	2
Number of 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 connection	No

Interfaces

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

Electrical data

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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

Wei	ight	0.11 kg
Ηοι	using material	Glass-fiber reinforced thermoplastic
Ме	chanical life	1 x 10 ⁶ switching cycles

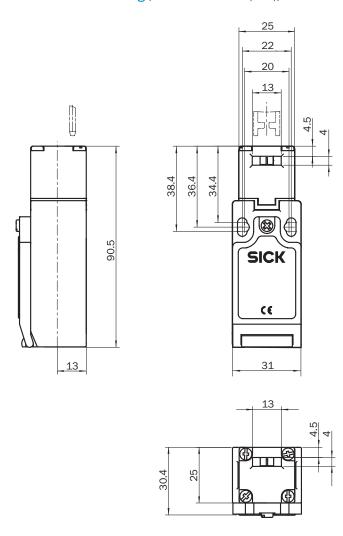
Ambient data

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

Classifications

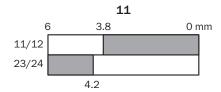
ECI@ss 5.0	27272602
ECI@ss 5.1.4	27272602
ECI@ss 6.0	27272602
ECI@ss 6.2	27272602
ECI@ss 7.0	27272602
ECI@ss 8.0	27272602
ECI@ss 8.1	27272602
ECI@ss 9.0	27272602
ETIM 5.0	EC002592
ETIM 6.0	EC002592
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))

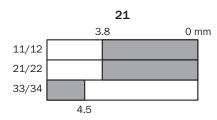


Actuator travel diagram

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

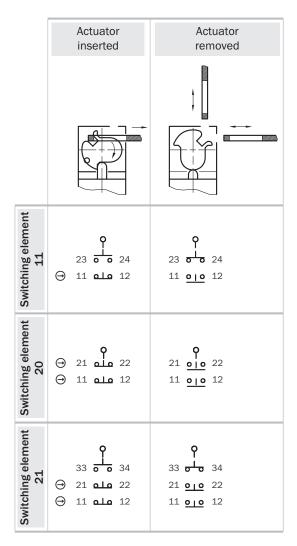






- ☐ Contacts open
- Contacts closed

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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