

i12-SB215

ELECTRO-MECHANICAL SAFETY SWITCHES





Ordering information

Туре	part no.
i12-SB215	1064507

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

actuator not supplied with delivery









Detailed technical data

Features

Positive action N/C contacts	2
N/O contacts	0
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

Interfaces

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

Electronics

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 \mathbf{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)

Mechanics

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

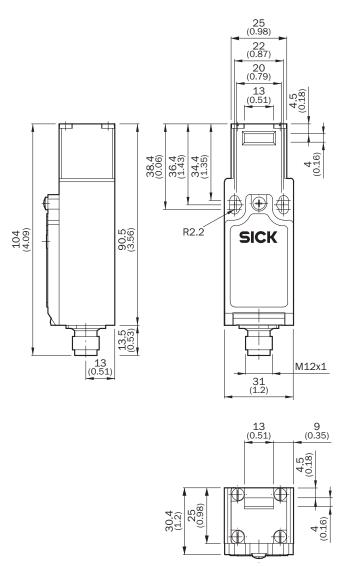
Certificates

EU declaration of conformity	1
UK declaration of conformity	√
China RoHS	√
cULus certificate	√
TÜV approval	√
TÜV approval annex	✓

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)

Pinouts

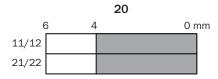


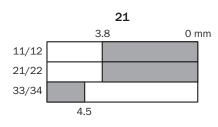
1	positive action N/C
2	contacts 11/12

positive action N/C contacts 21/22

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

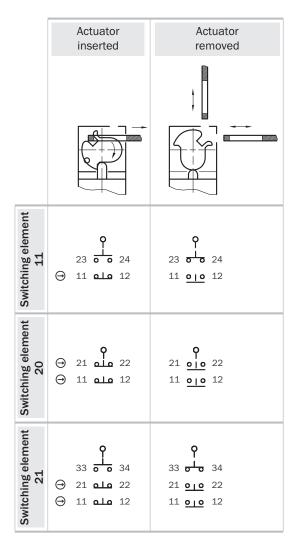






- ☐ Contacts open
- Contacts closed

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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WORLDWIDE PRESENCE:

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