



Sensor Intelligence.

ELECTRO-MECHANICAL SAFETY SWITCHES



i12-SB215 | i12S ELECTRO-MECHANICAL SAFETY SWITCHES



Ordering information

Туре	Part no.
i12-SB215	1064507

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

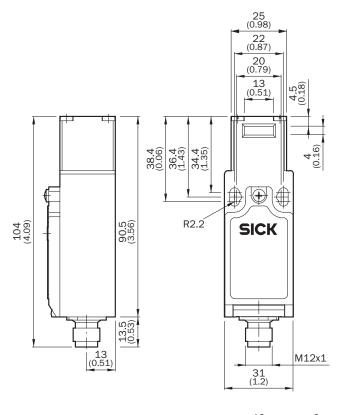
10000100	
Number of positive action N/C contacts	2
Number of N/O contacts	0
Retaining force	≤ 15 N
Actuation frequency	≤ 7,200 /h
Actuation directions	5
Approach speed	≤ 10 m/min
Safety-related parameters	
B _{10d} parameter	2×10^{6} switching cycles (with small load)
Туре	Type 2 (EN ISO 14119)
Actuator 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)
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 $\mathbf{U}_{\mathrm{imp}}$	1,500 V

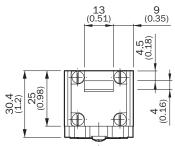
i12-SB215 | i12S

ELECTRO-MECHANICAL SAFETY SWITCHES

Short-circuit protection	2 A
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))





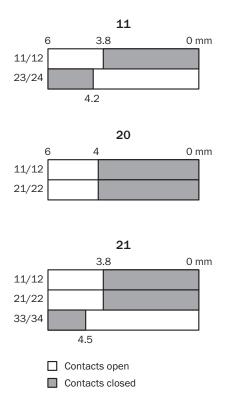
Pinouts



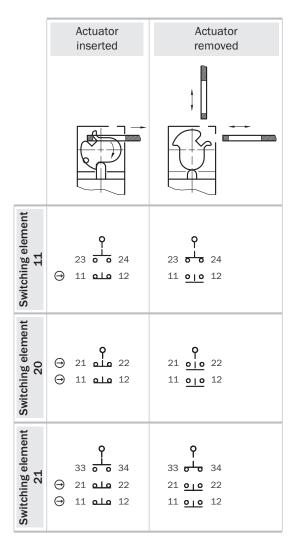
1	positive action N/C
2	contacts 11/12
3	positive action N/C
4	contacts 21/22

Actuator travel diagram

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



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

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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:

Contacts and other locations -www.sick.com



Online data sheet

