



SICK Sensor Intelligence.

ELECTRO-MECHANICAL SAFETY SWITCHES

i12-SA113 | i12S ELECTRO-MECHANICAL SAFETY SWITCHES



Ordering information

Туре	Part no.
i12-SA113	6025057

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	1
Number of N/O contacts	1
Retaining force	≤ 6 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.

Interfaces

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

Electrical data

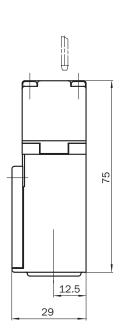
Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	3 A (240 V AC) 2 A (24 V DC)
Rated insulation voltage U _i	240 V
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	2,500 V AC
Short-circuit protection	T10/10A
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	≥ 5 mA (5 V DC)

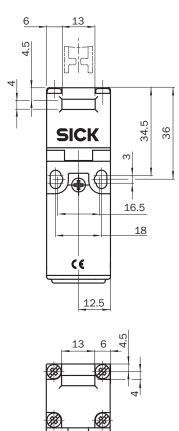
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Mechanical data

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		
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))

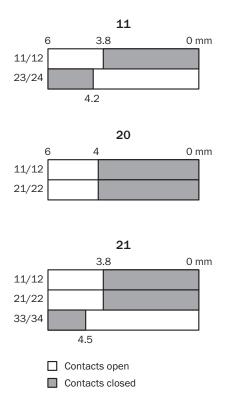




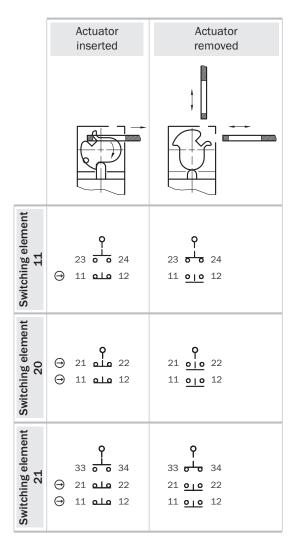
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Actuator travel diagram

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

