



SICK Sensor Intelligence.

ELECTRO-MECHANICAL SAFETY SWITCHES

i16-SA113 | i16S ELECTRO-MECHANICAL SAFETY SWITCHES



Ordering information

Туре	Part no.
i16-SA113	6025065

The actuator has to be ordered separately. See "Accessories" for further

Details.

Other models and accessories -> www.sick.com/i16S

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	≤ 30 N
Actuation frequency	≤ 7,200 /h
Actuation directions	3
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.

No

Functions

Interfaces

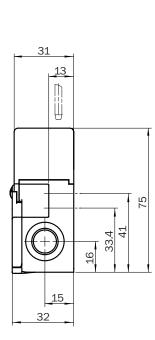
Connection type		Cable gland, 3 x M20
	Conductor cross-section	≤ 1.5 mm ²
Electrical data		
Switching principle		Slow action switching element
Usage category		AC-15/DC-13 (IEC 60947-5-1)

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

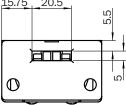
i16-SA113 | i16S ELECTRO-MECHANICAL SAFETY SWITCHES

Short-circuit protectionT10/10ASwitching voltage≥ 5 V DCSwitching current (switching voltage)≥ 5 mA (5 V DC)Mechanical data0.14 kgWeight0.14 kgHousing materialGlass-fiber reinforced polybutylene terephthalate (PBT)Mechanical life1 x 10 ⁶ switching cyclesAmbient data1967 (IEC 60529)Ambient operating temperature-20 ° C +80 ° CStorage temperature-20 ° C +80 ° CErcless 5.027272602Ercless 5.1.427272602Ercless 6.027272602Ercless 6.127272602Ercless 6.227272602Ercless 8.027272602Ercless 8.127272602Ercless		
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Dimensional drawing (Dimensions in mm (inch))

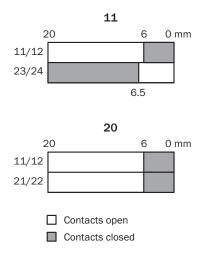




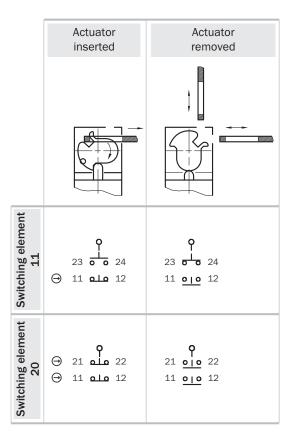


Actuator travel diagram

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

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

