



SICK Sensor Intelligence.

ELECTRO-MECHANICAL SAFETY SWITCHES

i110-SA223 | i110S ELECTRO-MECHANICAL SAFETY SWITCHES



Ordering information

Туре	Part no.
i110-SA223	6025074

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

Other models and accessories -> www.sick.com/i110S

actuator not supplied with delivery



Detailed technical data

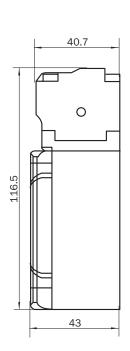
Features

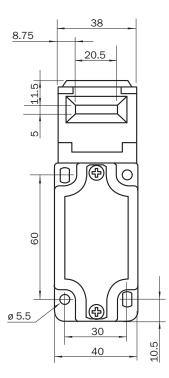
realures	
Number of positive action N/C contacts	2
Number of N/O contacts	2
Retaining force	≤ 12 N
Actuation frequency	≤ 7,200 /h
Actuation directions	5
Approach speed	≤ 10 m/min
Safety-related parameters	
B _{10d} parameter	2×10^{6} switching cycles (with small load)
Туре	Type 2 (EN ISO 14119)
Actuator 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	None, only individual wiring (with diagnostics)
Interfaces	
Connection type	Cable gland, 1 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)
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

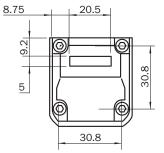
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Short-circuit protection T10/10A Switching voltage ≥ 5 ∨ DC Switching current (switching voltage) ≥ 5 mA (5 ∨ DC)	
5 5	
Mechanical data	
Weight 0.54 kg	
Housing material Zinc diecast	
Surface treatment Varnished	
Mechanical life 1 x 10 ⁶ switching cyc	les
Ambient data	
Enclosure rating IP67 (IEC 60529)	
Ambient operating temperature -20 °C +80 °C	
Storage temperature -20 °C +80 °C	
Classifications	
eCl@ss 5.0 27272602	
eCl@ss 5.1.4 27272602	
eCl@ss 6.0 27272602	
eCl@ss 6.2 27272602	
eCl@ss 7.0 27272602	
eCl@ss 8.0 27272602	
eCl@ss 8.1 27272602	
eCl@ss 9.0 27272602	
eCl@ss 10.0 27272602	
eCl@ss 11.0 27272602	
eCl@ss 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))

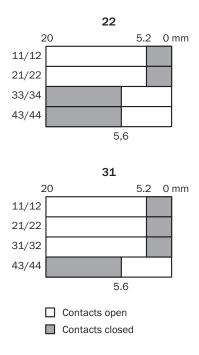






Actuator travel diagram

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



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Switching elements

	Actuator inserted	Actuator removed
Switching element 22	43 -√ 43 -√ 33 -√ 34 -√ 32 -√ 34 -√ 34 -√ 35 -√ 36 -√ 37 -√ 38 -√ 39 -√ 31 -√ 32 -√ 34 -√ 35 -√ 36 -√ 37 -√ 38 -√ 39 -√ 34 -√ 35 -√ 36 -√ 37 -√ 38 -√ 39 -√ 30 -√ 31 -√ 32 -√ 34 -√ 35 -√ 36 -√ 37 -√ 38 -√ 39 -√ 30 -√ 31 -√ <th>γ 43 σ¹σ 44 33 σ¹σ 34 21 <u>919</u> 22 11 <u>919</u> 12</th>	γ 43 σ ¹ σ 44 33 σ ¹ σ 34 21 <u>919</u> 22 11 <u>919</u> 12
Switching element 31	 ♀ 43 0 0 44 ④ 31 0 0 32 ④ 21 0 22 ④ 11 0 12 	43 0 44 31 0 0 32 21 0 0 22 11 0 0 12

Switching element 22:

2 positive action N/C contacts + 2 N/O contact

Switching element 31:

3 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

