

i110-SA313

**ELECTRO-MECHANICAL SAFETY SWITCHES** 





## Ordering information

Туре	Part no.
i110-SA313	6025073

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**

reatures	
Number of positive action N/C contacts	3
Number of N/O contacts	1
Retaining force	≤ 12 N
Actuation frequency	≤ 7,200 /h
Actuation directions	5
Approach speed	≤ 10 m/min

#### Safety-related parameters

B <sub>10d</sub> parameter	2 x 10 <sup>6</sup> 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 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 (24 V AC) 2 A (24 V DC)
Rated insulation voltage $\mathbf{U}_{i}$	240 V
Rated impulse withstand voltage U <sub>imp</sub>	2,500 V

Short-circuit protection	T10/10A
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	≥ 5 mA (5 V DC)

#### Mechanical data

Weight	0.54 kg
Housing material	Zinc diecast
Surface treatment	Varnished
Mechanical life	1 x 10 <sup>6</sup> switching cycles

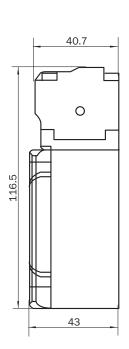
#### Ambient data

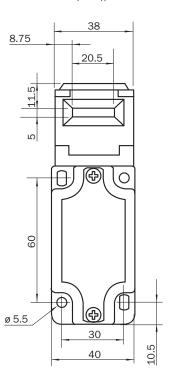
Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-20 °C +80 °C
Storage temperature	-20 °C +80 °C

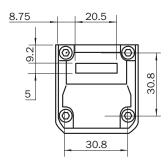
#### Classifications

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))

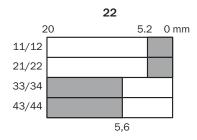


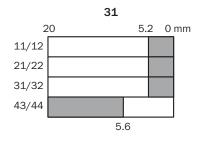




## Actuator travel diagram

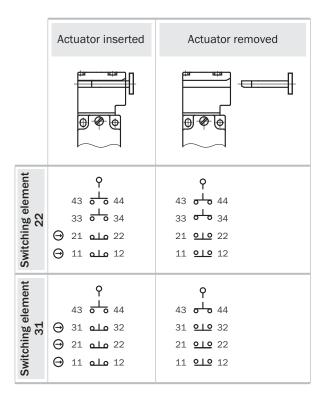
Contact action over the entire actuator withdrawl distance (full insertion = 0 mm)





- ☐ Contacts open
- Contacts closed

### Switching elements



#### 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

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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.

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."

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