

# **i110-PA123** i110P

SICK Sensor Intelligence.

**ELECTRO-MECHANICAL SAFETY SWITCHES** 

### **i110-PA123 | i110P** ELECTRO-MECHANICAL SAFETY SWITCHES



#### Ordering information

Туре	Part no.
i110-PA123	6025106

Other models and accessories -> www.sick.com/i110P

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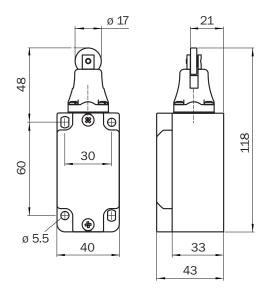
#### Detailed technical data

Features	
Number of positive action N/C contacts	1
Number of N/O contacts	1
Actuation force	≥ 13 N
Actuation frequency	≤ 6,000 /h
Actuation directions	4
Approach speed	0.1 m/min 15 m/min
Positive break travel	4.5 mm
Safety-related parameters	
B <sub>10d</sub> parameter	$2 \times 10^{6}$ switching cycles (with small load)
Туре	Type 1 (EN ISO 14119)
Actuator coding level	Uncoded (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	≤ 2.5 mm²
Electrical data	
Switching principle	Snap action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	3 A (240 V AC) 3 A (24 V DC)
Rated insulation voltage U <sub>i</sub>	250 V
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	2,500 V AC
Short-circuit protection	F15

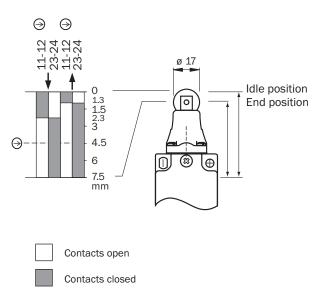
i110-PA123 | i110P ELECTRO-MECHANICAL SAFETY SWITCHES

Switching voltage≥ 5 V DCSwitching current (switching voltage)≥ 5 mA (5 V DC)Mechanical data0.43 kgWeight0.43 kgHousing materialZinc diecastSurface treatmentVarnishedMechanical life10 x 10 <sup>6</sup> switching cyclesAmbient dataIP66 (IEC 60529)	
Weight   0.43 kg     Housing material   Zinc diecast     Surface treatment   Varnished     Mechanical life   10 x 10 <sup>6</sup> switching cycles	
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Surface treatment Varnished   Mechanical life 10 x 10 <sup>6</sup> switching cycles   Ambient data	
Mechanical life 10 x 10 <sup>6</sup> switching cycles   Ambient data	
Ambient data	
Enclosure rating IP66 (IEC 60529)	
Ambient operating temperature -25 °C +80 °C	
Storage temperature -25 °C +80 °C	
Vibration resistance     10 Hz 5 Hz, 0.35 mm (IEC 68-2-6)	
Classifications	
eCl@ss 5.0 27272601	
eCl@ss 5.1.4 27272601	
eCl@ss 6.0 27272601	
eCl@ss 6.2 27272601	
eCl@ss 7.0 27272601	
eCl@ss 8.0 27272601	
eCl@ss 8.1 27272601	
eCl@ss 9.0 27272601	
eCl@ss 10.0 27272601	
eCl@ss 11.0 27272601	
eCl@ss 12.0 27272601	
ETIM 5.0 EC001829	
ETIM 6.0 EC001829	
ETIM 7.0 EC001829	
ETIM 8.0 EC001829	
UNSPSC 16.0901 39122205	

Dimensional drawing (Dimensions in mm (inch))



#### Actuator travel diagram



# 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

