

i110-PA123

**ELECTRO-MECHANICAL SAFETY SWITCHES** 





## Ordering information

Туре	part no.
i110-PA123	6025106

Other models and accessories → www.sick.com/i110P



#### Detailed technical data

#### **Features**

Positive action N/C contacts	1
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 x 10 <sup>6</sup> 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)
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#### Interfaces

Connection type		Cable gland, 1 x M20
	Conductor cross section	≤ 2.5 mm²

#### **Electronics**

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 U <sub>imp</sub>	2,500 V AC

Short-circuit protection	F15
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	5 mA (5 V DC)

#### Mechanics

Weight	0.43 kg
Housing material	Zinc diecast
Surface treatment	Varnished
Mechanical life	10 x 10 <sup>6</sup> switching cycles

#### 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)

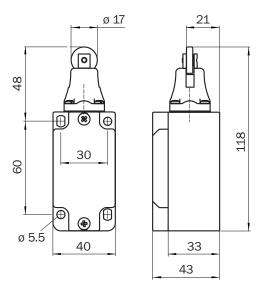
#### Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
cULus certificate	✓
TÜV approval	✓
TÜV approval annex	✓

#### Classifications

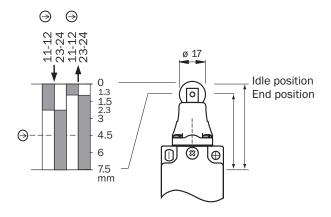
ECLASS 5.0	27272601
ECLASS 5.1.4	27272601
ECLASS 6.0	27272601
ECLASS 6.2	27272601
ECLASS 7.0	27272601
ECLASS 8.0	27272601
ECLASS 8.1	27272601
ECLASS 9.0	27272601
ECLASS 10.0	27272601
ECLASS 11.0	27272601
ECLASS 12.0	27272601
ETIM 5.0	EC001829
ETIM 6.0	EC001829
ETIM 7.0	EC001829
ETIM 8.0	EC001829
UNSPSC 16.0901	39122205

## **Dimensional drawing**



Dimensions in mm (inch)

# Actuator travel diagram





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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.

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