

i110-RA123

ELECTRO-MECHANICAL SAFETY SWITCHES



i110-RA123 | i110R ELECTRO-MECHANICAL SAFETY SWITCHES



Ordering information

Туре	Part no.
i110-RA123	6025109

Other models and accessories -> www.sick.com/i110R

Detailed technical data

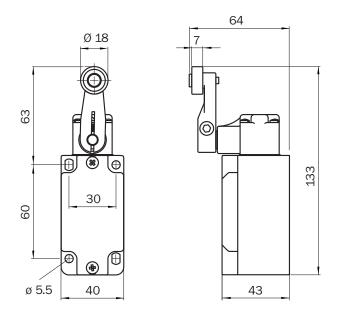
Base parameter 2 x 10 ⁶ switching cycles (with small load) Type 790 (EN ISO 14119) Actuator coding level Uncoded (EN ISO 14119) Safe state in the event of a fault The switch has no internal fault detection and is unable to assume a safe state in the event of a fault. Fault detection is performed by the connected safety-related logic unit. Functions 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. Safe series connection None, only individual wiring (with diagnostics) Interfaces Conductor cross section Conductor cross section Colde gland, 1 x M20 Conductor cross section Safe action switching element Switching principle Napa action switching element Usage category Ac15/DC13 (IEC 60947-5.1) Rated operating current (voltage) A(240 V AC) 3 (24 V DC) Rated insulation voltage Uj 250 V	Features		
Actuation frequency ≤ 6,000 /h Actuation frequency ≥ 0.34 Nm Actuation directions 4 Approach speed 0.1 m/min15 m/min Positive break angle 54° Safety-related parameters 2x10 ⁶ switching cycles (with small load) Type 2x10 ⁶ switching cycles (with small load) Type 1ype 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 Safe state in the event of a fault Sale gland, 1 x M20 Conductor cross section 2.5 mm ² Electrical data Size category Switching principle Safe cate in the event of a fault Safe category Actuation colory is a cite in the c	Number of positive action N/C contacts	1	
Actuation torque ≥ 0.34 Nm Actuation directions 4 Approach speed 0.1 m/min15 m/min Positive break angle 0.1 m/min15 m/min Boad Parameters 54° Stafety-related parameters 2x 10 ⁶ switching cycles (with small load) Type 2x 10 ⁶ switching cycles (with small load) Type Uncoded (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 Conductor cross section Sale gland, 1 x M20 Conductor cross section Sale action switching element Usage category Action Societion Societ	Number of N/O contacts	1	
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Positive break angle 54° Safety-related parameters 2 x 10° switching cycles (with small load) Bood parameter 2 x 10° switching cycles (with small load) Type 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 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 The switch has no internal fault detection and is unable to assume a safe state in the event of a fault. Safe series connection None, only individual wiring (with diagnostics) Interfaces Conductor cross section Conductor cross section Cable gland, 1 x M20 Conductor cross section Safe action switching element Switching principle Snap action switching element Sage category Cal/QiO VAC) 3A (240 VAC) 3A (240 VAC) Rated operating current (voltage) SiO V	Actuation directions	4	
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Safe state in the event of a faultThe 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.FunctionsSafe series connectionNone, only individual wiring (with diagnostics)InterfacesConnection typeCable gland, 1 x M20 ≤ 2.5 mm²Electrical dataSwitching principleSna paction switching elementUsage categoryAC15/DC-13 (IEC 60947-5-1)Rated operating Current (voltage)3 A (240 V AC) 3 A (244 V DC)Sub Sub Sub Sub Sub Sub Sub Sub Sub Sub	Туре	Type 1 (EN ISO 14119)	
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Safe series connectionNone, only individual wiring (with diagnostics)InterfacesCable gland, 1 x M20 ≤ 2.5 mm²Conductor cross section≤ 2.5 mm²Electrical dataSnap action switching elementSwitching principleSnap action switching elementUsage categoryAC-15/DC-13 (IEC 60947-5-1)Rated operating current (voltage)3 A (240 V AC) 3 A (244 V DC)Rated insulation voltage UiSto V	Safe state in the event of a fault		
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Conductor cross section ≤ 2.5 mm ² Electrical data Switching principle Switching principle Snap action switching element Usage category AC-15/DC-13 (IEC 60947-5-1) Rated operating current (voltage) 3A (240 V AC) 3A (240 V AC) 3A (240 V DC) Rated insulation voltage U _i 50 V	Interfaces		
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Switching principleSnap action switching elementUsage categoryAC-15/DC-13 (IEC 60947-5-1)Rated operating current (voltage)3 A (240 V AC) 3 A (24 V DC)Rated insulation voltage Ui250 V	Conductor cross section	≤ 2.5 mm ²	
Usage categoryAC-15/DC-13 (IEC 60947-5-1)Rated operating current (voltage) $3A(240 V AC)$ $3A(24 V DC)$ Rated insulation voltage Ui $250 V$	Electrical data		
Rated operating current (voltage) 3 A (240 V AC) 3 A (24 V DC) Rated insulation voltage Ui 250 V	Switching principle	Snap action switching element	
Rated insulation voltage U _i 3 A (24 V DC)	Usage category	AC-15/DC-13 (IEC 60947-5-1)	
	Rated operating current (voltage)		
	Rated insulation voltage U _i	250 V	
kated impulse withstand voltage U _{imp} 2,500 V AC	Rated impulse withstand voltage \mathbf{U}_{imp}	2,500 V AC	
Short-circuit protection F15	Short-circuit protection	F15	

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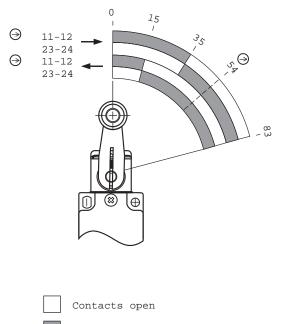
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	≥ 5 mA (5 V DC)
Mechanical data	
Weight	0.52 kg
Housing material	Zinc diecast
Surface treatment	Varnished
Mechanical life	10 x 10 ⁶ switching cycles
Ambient data	
Enclosure rating	IP66 (IEC 60529)
Ambient operating temperature	-25 °C +80 °C
Storage temperature	-25 °C +80 °C
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

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Dimensional drawing (Dimensions in mm (inch))



Actuator travel diagram



Contacts closed

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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."

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