

i110-HA213

ELECTRO-MECHANICAL SAFETY SWITCHES





Ordering information

Туре	Part no.
i110-HA213	6025072

Other models and accessories → www.sick.com/i110H



Detailed technical data

Features

Number of positive action N/C contacts	2
Number of N/O contacts	1
Actuation frequency	≤ 3,600 /h
Actuation torque	≥ 0.12 Nm
Directions of rotation	2
Switching angle	Adjustable 5° 11°

Safety-related parameters

B _{10d} parameter	2 x 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)	
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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
Rated operating current (voltage)	3 A (240 V AC) 2 A (24 V DC)
Rated insulation voltage U _i	250 V
Rated impulse withstand voltage U _{imp}	2,500 V AC
Short-circuit protection	3 A gG
Switching voltage	≥ 5 V DC

Switching current (switching voltage)	≥ 5 mA (5 V DC)
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Mechanical data

Weight	0.45 kg
Housing material	Zinc diecast
Surface treatment	Varnished
Mechanical life	1 x 10 ⁶ switching cycles

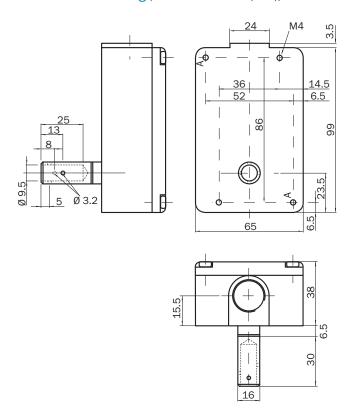
Ambient data

Enclosure rating	IP66
Ambient operating temperature	-25 °C +80 °C
Storage temperature	-25 °C +80 °C

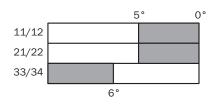
Classifications

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

Dimensional drawing (Dimensions in mm (inch))



Actuator travel diagram



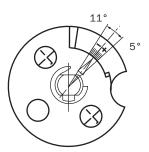
- □ Contacts open
- Contacts closed

Switching elements

	Not actuated	Actuated
Switching element 21	 ♀ □ □	ρ 11 <u>0</u> 10 12 21 <u>0</u> 10 22 33 0 0 34

Switching element 21: 2 positive action N/C contacts + 1 N/O contact

Adjustments



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