

i10-HA113 i10H

ELECTRO-MECHANICAL SAFETY SWITCHES





Ordering information

Туре	Part no.
i10-HA113	6025050

Other models and accessories → www.sick.com/i10H



Detailed technical data

Features

Positive action N/C contacts	1
N/O contacts	1
Actuation frequency	≤ 3,600 /h
Actuation torque	≥ 0.08 Nm
Directions of rotation	2
Switching angle	Adjustable 3° 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 connections	None, only individual wiring (with diagnostics)
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Interfaces

Connection type	Cable gland, 1 x M16
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Electrical data

Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	3 A (240 V AC) 2 A (24 V DC)
Rated insulation voltage U _i	250 V
Rated impulse with stand voltage $\mathbf{U}_{\mathrm{imp}}$	2,500 V AC
Short-circuit protection	3 A gG
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	5 mA (5 V DC)

Mechanical data

Weight	0.12 kg
Housing material	Glass-fiber reinforced polyester
Mechanical life	1 x 10 ⁶ switching cycles

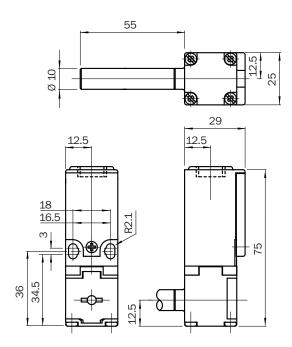
Ambient data

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

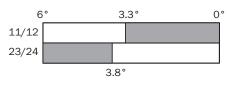
Classifications

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



- □ Contacts open
- Contacts closed

Switching elements

	Not actuated	Actuated
Switching element 11	 ♀ 11 ♀ □ 12 23 □ ○ 24 	ρ 11 <u>010</u> 12 23 σ σ 24
Switching element Switching element 21 11	 ♀ 11 ♀ 12 ⊖ 21 ⋴ 12 ⊖ 21 ⋴ 22 ₃	ρ 11 <u>0</u> 10 12 21 <u>0</u> 10 22 33 0 8 34

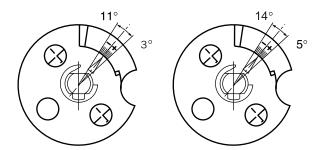
Switching element 11:

1 positive action N/C contact + 1 N/O contact

Switching element 21:

2 positive action N/C contacts + 1 N/O contact

Adjustments



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