i10-HA113

i10H

ELECTRO-MECHANICAL SAFETY SWITCHES

SICK
Sensor Intelligence.

i10-HA113 | i10H
ELECTRO-MECHANICAL SAFETY SWITCHES

Ordering information

Type	Part no.
i10-HA113	6025050

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

Detailed technical data

Features

Number of positive action N/C contacts	1
Number of 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	2×10^6 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.

Interfaces

Connection type	Cable gland, 1 x M16

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 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)

Mechanical data

Weight	0.12 kg

Housing material	Glass-fiber reinforced polyester
Mechanical life	1×10^6 switching cycles

Ambient data

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

Classifications

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
ETIM 5.0	EC001829
ETIM 6.0	EC001829
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))
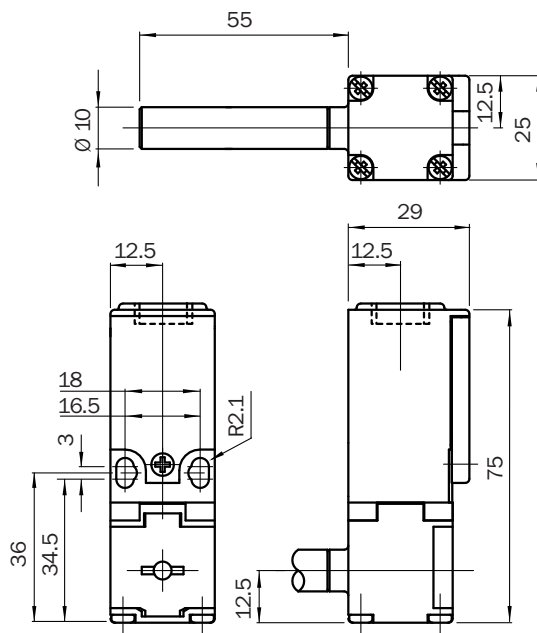
Actuator travel diagram

	6°	3.3°	0°
11/12			
23/24		3.8°	

☐ Contacts open
▨ Contacts closed

Switching elements

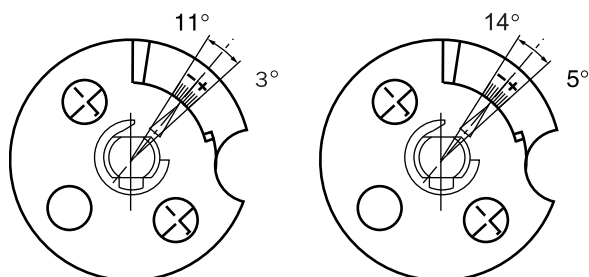|	Not actuated	Actuated
Switching element 11	⊖ 11 ⊸⊢ 12 / 23 ⊸⊸ 24	11 ⊸⊢⊸ 12 / 23 ⊸⊢ 24
Switching element 21	⊖ 11 ⊸⊢ 12 / ⊖ 21 ⊸⊢ 22 / 33 ⊸⊸ 34	11 ⊸⊢⊸ 12 / 21 ⊸⊢⊸ 22 / 33 ⊸⊢ 34

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

11°   3°

14°   5°

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:

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