

SICK Sensor Intelligence.

**ELECTRO-MECHANICAL SAFETY SWITCHES** 

### **i110-HA213 | i110H** ELECTRO-MECHANICAL SAFETY SWITCHES



#### Ordering information

Туре	Part no.
i110-HA213	6025072

Other models and accessories 

www.sick.com/i110H

# 

#### Detailed technical data

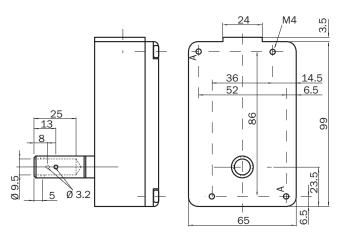
Features		
Positive action N/C contacts	2	
N/O contacts	1	
Actuation frequency	≤ 3,600 /h	
Actuation torque	≥ 0.12 Nm	
Directions of rotation	2	
Switching angle	Adjustable 5° 11°	
Safety-related parameters		
B <sub>10d</sub> parameter	2 x 10 <sup>6</sup> switching cycles (with small load)	
Туре	Type 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 connections	None, only individual wiring (with diagnostics)	
Interfaces		
Connection type	Cable gland, 1 x M20	
Conductor cross section	≤ 1.5 mm <sup>2</sup>	
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 <sub>i</sub>	250 V	
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	2,500 V AC	
Short-circuit protection	3 A gG	
Switching voltage	≥ 5 V DC	

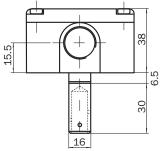
i110-HA213 | i110H ELECTRO-MECHANICAL SAFETY SWITCHES

Switching current (switching voltage)	5 mA (5 V DC)
Mechanical data	
Weight	0.45 kg
Housing material	Zinc diecast
Surface treatment	Varnished
Mechanical life	1 x 10 <sup>6</sup> switching cycles
Ambient data	
Enclosure rating	IP66
Ambient operating temperature	-25 °C +80 °C
Storage temperature	-25 °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

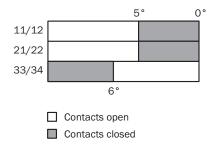
#### **i110-HA213 | i110H** ELECTRO-MECHANICAL SAFETY SWITCHES

#### Dimensional drawing (Dimensions in mm (inch))

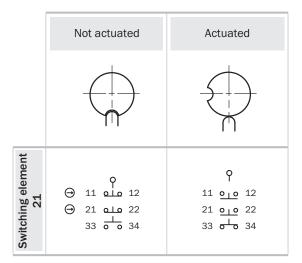




#### Actuator travel diagram



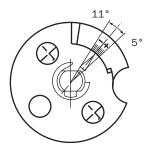
#### Switching elements



#### Switching element 21:

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

#### Adjustments



# 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:

Contacts and other locations -www.sick.com



Online data sheet

