

i110-SA225

**ELECTRO-MECHANICAL SAFETY SWITCHES** 





# Ordering information

Туре	part no.
i110-SA225	1064509

Other models and accessories → www.sick.com/i110S

actuator not supplied with delivery







#### Detailed technical data

#### **Features**

Positive action N/C contacts	2
N/O contacts	0
Retaining force	≤ 12 N
Actuation frequency	≤ 7,200 /h
Actuation directions	5
Approach speed	≤ 10 m/min

# Safety-related parameters

B <sub>10d</sub> parameter	2 x 10 <sup>6</sup> switching cycles (with small load)
Туре	Type 2 (EN ISO 14119)
Actuator coding level	Low coding level (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	With Flexi Loop (with diagnostics)
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#### Interfaces

Connection type	Plug connector, M12, 4-pin
Coupling nut material	Nickel-plated brass

#### Electronics

Switching principle	Slow action switching element
Usage category	DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	2 A (24 V DC)
Rated insulation voltage U <sub>i</sub>	32 V
Rated impulse withstand voltage U <sub>imp</sub>	1,500 V
Short-circuit protection	2 A

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

# Mechanics

Weight	+ 0.54 kg
Housing material	Zinc diecast
Surface treatment	Varnished
Mechanical life	1 x 10 <sup>6</sup> switching cycles

# Ambient data

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

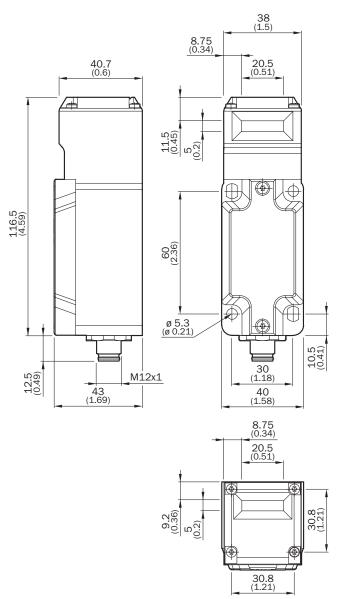
# Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
TÜV approval	✓
TÜV approval annex	✓

#### Classifications

ECLASS 5.0	27272602
ECLASS 5.1.4	27272602
ECLASS 6.0	27272602
ECLASS 6.2	27272602
ECLASS 7.0	27272602
ECLASS 8.0	27272602
ECLASS 8.1	27272602
ECLASS 9.0	27272602
ECLASS 10.0	27272602
ECLASS 11.0	27272602
ECLASS 12.0	27272602
ETIM 5.0	EC002592
ETIM 6.0	EC002592
ETIM 7.0	EC002592
ETIM 8.0	EC002592
UNSPSC 16.0901	39122205

# **Dimensional drawing**



Dimensions in mm (inch)

#### **Pinouts**

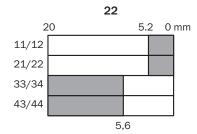


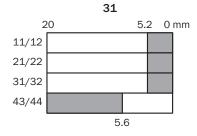
	1	positive action N/C
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<sup>2</sup> contacts 11/12

positive action N/C contacts 21/22

# Actuator travel diagram Contact action over the entire actuator withdrawl distance (full insertion = 0 mm)

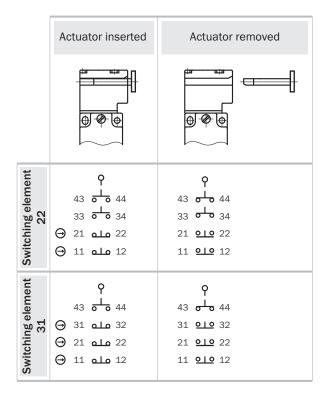




☐ Contacts open

Contacts closed

#### Switching elements



#### Switching element 22:

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

#### Switching element 31:

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

# 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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