



# i14-M0213 Lock

i14 Lock

**SAFETY LOCKING DEVICES** 





## Ordering information

Туре	part no.
i14-M0213 Lock	6025060

Other models and accessories → www.sick.com/i14\_Lock

actuator not supplied with delivery









#### Detailed technical data

#### **Features**

Sensor principle	Electro-mechanical
Locking principle	Power to release
Positive action N/C solenoid monitoring contacts	2
N/O solenoid monitoring contacts	1
Positive action N/C door monitoring contacts	0
N/O door monitoring contacts	0
N/C contact for door monitoring	0
Locking force F <sub>max</sub>	1,000 N (EN ISO 14119)
Locking force F <sub>Zh</sub>	770 N (EN ISO 14119)
Actuation force	≥ 12 N
Retaining force	≤ 50 N <sup>1)</sup>
Actuation frequency	≤ 3,600 /h
Actuation directions	3
Approach speed	≤ 10 m/min

 $<sup>^{1)}</sup>$  With actuator iE14-S1; max. 12 N with actuator iE14-S2.

## 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	None, only individual wiring (with diagnostics)
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#### Interfaces

Connection type	Cable gland, 1 x M20
Conductor cross section	n ≤ 1.5 mm²
Display elements	LEDs
Status displa	y <b>J</b>

#### Electronics

Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (EN 60947-5-1)
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 with stand voltage $\mathbf{U}_{\mathrm{imp}}$	2,500 V
Type of output	Electro-mechanical contacts
Power consumption	≤ 7 W
Short-circuit protection	3 A gG
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	5 mA (5 V DC)
Solenoid operating voltage	(20.4 V DC 26.4 V DC)
Switch-on time of magnet	100 %
Locking principle	Power to release

#### Mechanics

Weight	0.37 kg
Housing material	Glass-fiber reinforced thermoplastic
Mechanical life	1 x 10 <sup>6</sup> switching cycles

#### Ambient data

Enclosure rating	IP65 (IEC 60529)
Ambient operating temperature	-20 °C +60 °C
Storage temperature	-10 °C +60 °C

#### Certificates

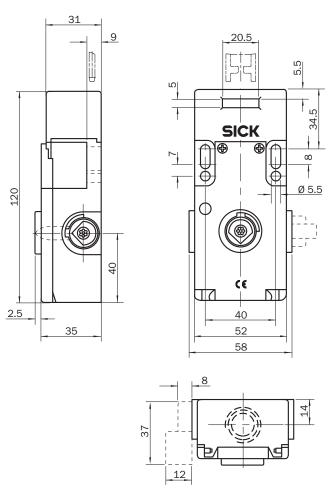
EU declaration of conformity	✓
UK declaration of conformity	✓
cULus certificate	✓
TÜV approval	✓
TÜV approval annex	✓

#### Classifications

ECLASS 5.0	27272603
ECLASS 5.1.4	27272603
ECLASS 6.0	27272603
ECLASS 6.2	27272603
ECLASS 7.0	27272603

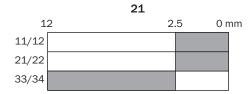
ECLASS 8.0	27272603
ECLASS 8.1	27272603
ECLASS 9.0	27272603
ECLASS 10.0	27272603
ECLASS 11.0	27272603
ECLASS 12.0	27272603
ETIM 5.0	EC002593
ETIM 6.0	EC002593
ETIM 7.0	EC002593
ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

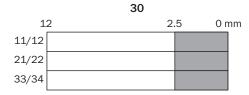
## Dimensional drawing



Dimensions in mm (inch)

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

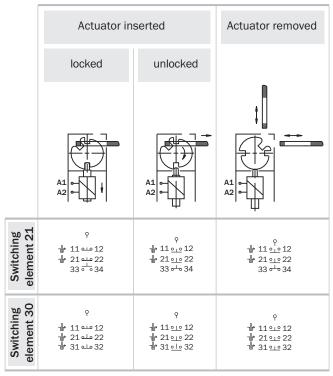




☐ Contacts open

Contacts closed

## Switching elements



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#### Switching element 21:

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

#### Switching element 30:

3 positive action N/C contacts

## 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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