



SICK Sensor Intelligence.

SAFETY LOCKING DEVICES

i14-M0213 Lock | i14 Lock

SAFETY LOCKING DEVICES



Ordering information

Туре	Part no.
i14-M0213 Lock	6025060

The actuator has to be ordered separately. See "Accessories" for further details.

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
Number of positive action N/C solenoid monitoring contacts	2
Number of N/O solenoid monitoring con- tacts	1
Number of positive action N/C door moni- toring contacts	0
Number of N/O door monitoring contacts	0
Number of N/C door monitoring contacts	0
Locking force F _{max}	1,000 N (EN ISO 14119)
Locking force F _{Zh}	770 N (EN ISO 14119)
Actuation force	≥ 12 N
Retaining force	≤ 50 N ¹⁾
Actuation frequency	≤ 3,600 /h
Actuation directions	3
Approach speed	≤ 10 m/min

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

Safety-related parameters

B _{10d} parameter	2×10^{6} 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.

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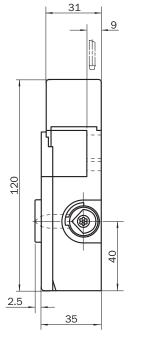
Functions	
Safe series connection	None, only individual wiring (with diagnostics)
Interfaces	
Connection type	Cable gland, 1 x M20
Conductor cross-section	≤ 1.5 mm ²
Status display	1
Electrical data	
Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (EN 60947-5-1)
Rated operating current (voltage)	3 A (240 V AC) 2 A (24 V DC)
Rated insulation voltage U _i	250 V
Rated impulse withstand voltage U _{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
Mechanical data	
Weight	0.37 kg
Housing material	Glass-fiber reinforced thermoplastic
Mechanical life	1 x 10 ⁶ switching cycles
Ambient data	
Enclosure rating	IP65 (IEC 60529)
Ambient operating temperature	-20 °C +60 °C
Storage temperature	-10 °C +60 °C
Classifications	
eCl@ss 5.0	27272603
eCl@ss 5.1.4	27272603
eCl@ss 6.0	27272603
eCl@ss 6.2	27272603
eCl@ss 7.0	27272603
eCl@ss 8.0	27272603
eCl@ss 8.1	27272603
eCl@ss 9.0	27272603
eCl@ss 10.0	27272603
eCl@ss 11.0	27272603
eCl@ss 12.0	27272603

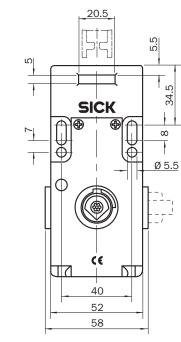
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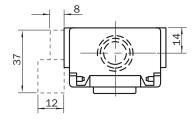
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ETIM 5.0	EC002593
ETIM 6.0	EC002593
ETIM 7.0	EC002593
ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))

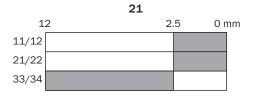


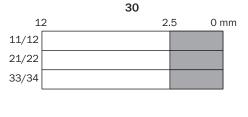




Actuator travel diagram

Contact action over the entire actuator withdrawl distance (full insertion = 0 mm)

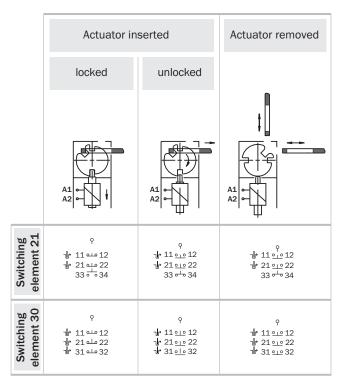




Contacts open

Contacts closed

Switching elements



- Positive action N/C locking monitoring contact

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:

Contacts and other locations -www.sick.com



Online data sheet

