



i14-M0303 Lock

i14 Lock

SAFETY LOCKING DEVICES





Ordering information

Туре	Part no.
i14-M0303 Lock	6025062

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
Positive action N/C solenoid monitoring contacts	3
N/O solenoid monitoring contacts	0
Positive action N/C door monitoring contacts	0
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 x 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.

Functions

Safe series connections	None, only individual wiring (with diagnostics)
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Interfaces

Connection type		Cable gland, 1 x M20
Co	onductor cross section	≤ 1.5 mm²
Display elements		LEDs
	Status display	✓

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 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

Mechanical data

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

Ambient data

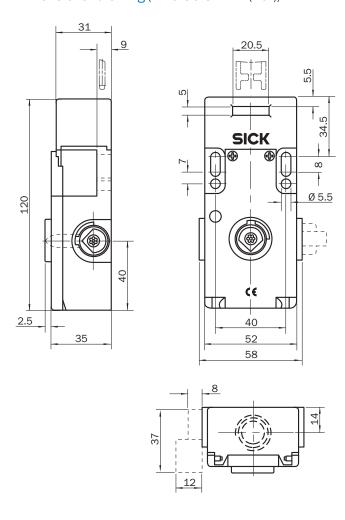
Enclosure rating	IP65 (IEC 60529)
Ambient operating temperature	-20 °C +60 °C
Storage temperature	-10 °C +60 °C

Classifications

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

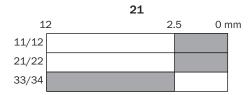
ECLASS 12.0	27272603
ETIM 5.0	EC002593
ETIM 6.0	EC002593
ETIM 7.0	EC002593
ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

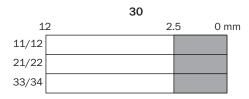
Dimensional drawing (Dimensions in mm (inch))



Actuator travel diagram

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

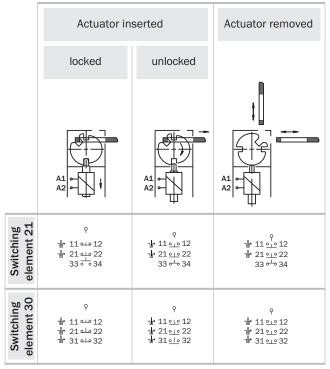




☐ Contacts open

Contacts closed

Switching elements



[→] 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

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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.

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For us, that is "Sensor Intelligence."

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