

i10-M0454 Lock i10 Lock

SAFETY LOCKING DEVICES





Ordering information

Туре	Part no.
i10-M0454 Lock	6045055

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

Other models and accessories → www.sick.com/i10_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	0
Positive action N/C door monitoring contacts	1
N/O door monitoring contacts	0
Number of N/C door monitoring contacts	0
Locking force F _{max}	1,300 N (EN ISO 14119)
Locking force F _{Zh}	1,000 N (EN ISO 14119)
Actuation force	≥ 10 N
Retaining force	≤ 20 N
Actuation frequency	≤ 1,200 /h
Actuation directions	4
Approach speed	≤ 20 m/min

Safety-related parameters

B _{10d} parameter	3 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	With Flexi Loop (with diagnostics)
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Interfaces

Connection type	Plug connector, M12, 8-pin
Coupling nut material	Brass

Electrical data

Contamination rating	3
Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	1 A (24 V AC) 1 A (24 V DC)
Rated insulation voltage U _i	30 V
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	1,500 V AC
Type of output	Electro-mechanical contacts
Power consumption	≤ 8 W
Short-circuit protection	1 A gG
Switching voltage	≥ 12 V DC
Switching current (switching voltage)	1 mA (24 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	0.5 kg
Housing material	Glass-fiber reinforced thermoplastic
Mechanical life	1 x 10 ⁶ switching cycles

Ambient data

Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-20 °C +55 °C
Storage temperature	-20 °C +55 °C

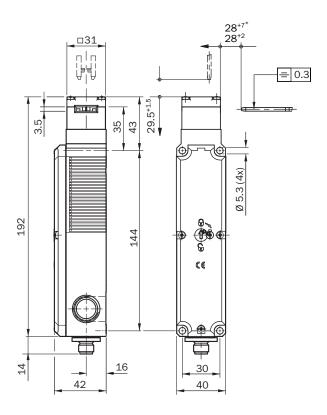
Classifications

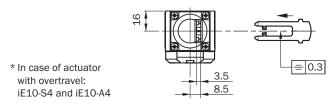
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ECLASS 8.1	27272603
ECLASS 9.0	27272603
ECLASS 10.0	27272603
ECLASS 11.0	27272603
ECLASS 12.0	27272603
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ETIM 6.0	EC002593

ETIM 7.0	EC002593
ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

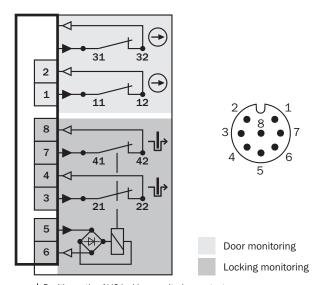
Dimensional drawing (Dimensions in mm (inch))

sensor





Pinouts



- $\ensuremath{\mbox{\rlap/ P}}$ Positive action N/C locking monitoring contact
- $\ensuremath{\boxdot}$ Positive action N/C door monitoring contact

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