

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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i10-M0453 Lock

i10 Lock

SAFETY LOCKING DEVICES

SICKSensor Intelligence.



Ordering information

Туре	Part no.
i10-M0453 Lock	6029934

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

Name to the state of the state	
Number of positive action N/C solenoid monitoring contacts	2
Number of N/O solenoid monitoring contacts	0
Number of positive action N/C door monitoring contacts	2
Number of N/O door monitoring contacts	0
Number of N/C door monitoring contacts	0
Locking force F _{max}	1,300 N (EN ISO 14119)
With straight actuator	EN ISO 14119
With angled actuator	EN ISO 14119
With hinged actuator	EN ISO 14119
Locking force F _{Zh}	1,000 N (EN ISO 14119)
Actuation force	≥ 10 N
Actuation frequency	≤ 7,000 /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.

Interfaces

Connection type	Cable gland, 3 x M20
Conductor of	ross-section 0.34 mm ² 1.5 mm ²

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)	4 A (230 V AC) 4 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	≤8 W
Short-circuit protection	4 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	0.46 kg
Housing material	Glass-fiber reinforced thermoplastic
Mechanical life	1 x 10 ⁶ switching cycles

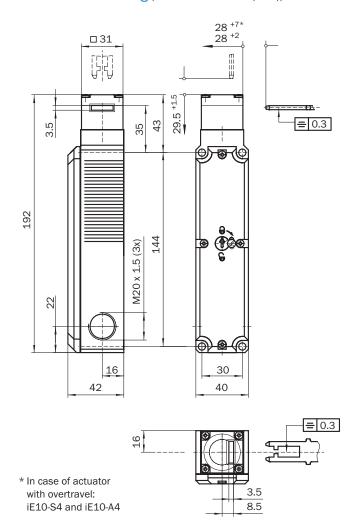
Ambient data

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

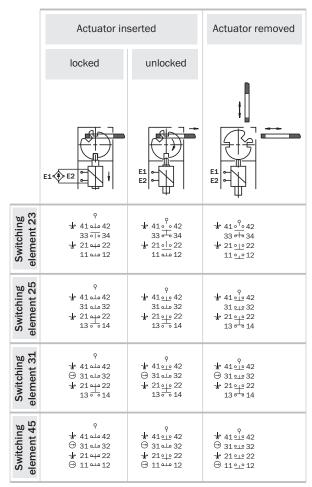
Classifications

ECI@ss 5.0	27272603
ECI@ss 5.1.4	27272603
ECI@ss 6.0	27272603
ECI@ss 6.2	27272603
ECI@ss 7.0	27272603
ECI@ss 8.0	27272603
ECI@ss 8.1	27272603
ECI@ss 9.0	27272603
ETIM 5.0	EC002593
ETIM 6.0	EC002593
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))



Switching elements



[→] Positive action N/C locking monitoring contact

Switching element 23:

- 2 positive action N/C contacts + 1 N/O contact (Locking monitoring)
- 1 N/C contact (Door monitoring)

Switching element 25:

- 2 positive action N/C contacts (Locking monitoring)
- 1 N/C contact + 1 N/O contact (Door monitoring)

Switching element 31:

- 2 positive action N/C contacts (Locking monitoring)
- 1 positive action N/C + 1 N/O contact (Door monitoring)

Switching element 45:

- 2 positive action N/C contacts (Locking monitoring)
- 2 positive action N/C contacts (Door monitoring)

[⊖] Positive action N/C door monitoring 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.

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