

i10-E0253 Lock

i10 Lock

SAFETY LOCKING DEVICES





Ordering information

Туре	Part no.
i10-E0253 Lock	6020536

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

i catalos	
Sensor principle	Electro-mechanical
Locking principle	Power to lock
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	0
Number of N/O door monitoring contacts	1
Number of N/C door monitoring contacts	1
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

Interfaces

Connection type		Cable gland, 3 x M20
	Conductor cross 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 lock

Mechanical data

Weight	0.46 kg
Housing material	Glass-fiber reinforced thermoplastic
Mechanical life	1 x 10 ⁶ switching cycles

Ambient data

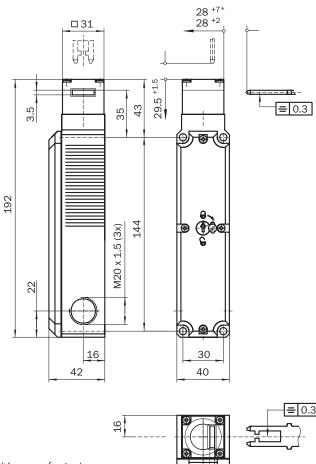
Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-20 °C +55 °C
Storage temperature	-20 °C +55 °C

Classifications

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
ETIM 5.0	EC002593
ETIM 6.0	EC002593

ETIM 7.0	EC002593
ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

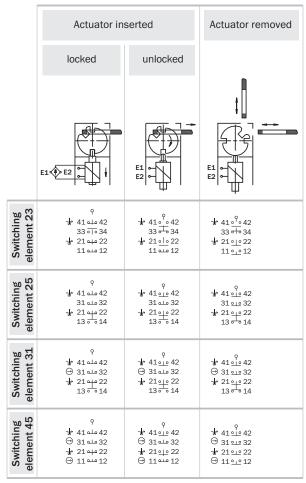
Dimensional drawing (Dimensions in mm (inch))



3.5

8.5

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

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