

i10-M0253 Lock i10 Lock

SAFETY LOCKING DEVICES





Ordering information

| Туре | Part no. |
|----------------|----------|
| i10-M0253 Lock | 6027397 |

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 release |
| 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

| Safe series connection | None, only individual wiring (with diagnostics) |
|------------------------|---|
| Saic scries connection | rvone, only marvadar winig (with diagnostics) |

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 withstand 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

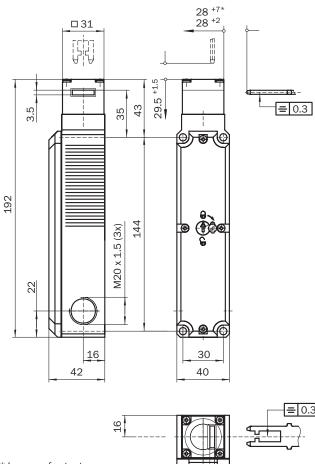
| Enclosure rating | IP67 (IEC 60529) |
|-------------------------------|------------------|
| Ambient operating temperature | -20 °C +55 °C |
| Storage temperature | -20 °C +55 °C |

Classifications

| 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 |

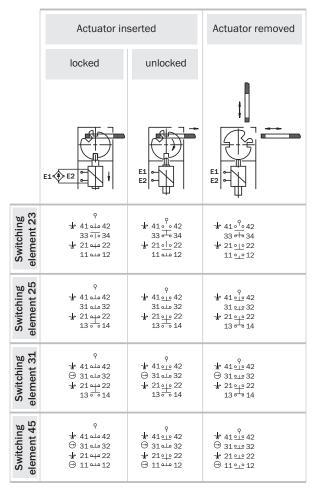
Dimensional drawing (Dimensions in mm (inch))



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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