

# i10-E0313S02 Lock

i10 Lock

**SAFETY LOCKING DEVICES** 





## Ordering information

| Туре              | Part no. |
|-------------------|----------|
| i10-E0313S02 Lock | 6011368  |

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

| reatures   |                        |
|--|------------------------|
| 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     | 1                      |
| Number of N/O door monitoring contacts                     | 1                      |
| Number of N/C door monitoring contacts                     | 0                      |
| Locking force F <sub>max</sub>                             | 1,300 N (EN ISO 14119) |
| Locking force F <sub>Zh</sub>                              | 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 <sub>10d</sub> parameter         | 3 x 10 <sup>6</sup> 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) |
|------------------------|---|

#### Interfaces

| Connection type |                         | Cable gland, 3 x M20                     |
|-----------------|-------------------------|--|
|                 | Conductor cross section | 0.34 mm <sup>2</sup> 1.5 mm <sup>2</sup> |

## 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)<br>4 A (24 V DC) |
| Rated insulation voltage U <sub>i</sub>          | 250 V                           |
| Rated impulse withstand voltage U <sub>imp</sub> | 2,500 V                         |
| Type of output                                   | Electro-mechanical contacts     |
| Power consumption                                | ≤8W                             |
| 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 <sup>6</sup> switching cycles |

#### Ambient data

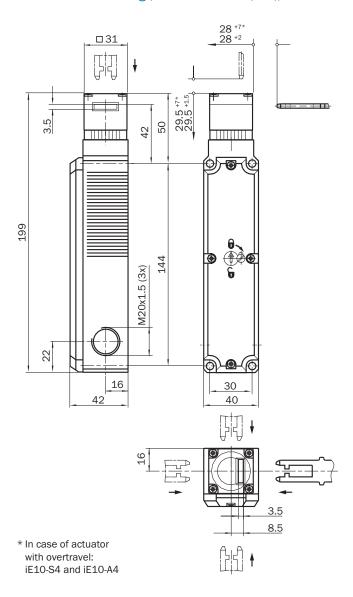
| Enclosure rating              | IP67 (IEC 60529) |
|-------------------------------|------------------|
| Ambient operating temperature | -20 °C +55 °C    |
| Storage temperature           | -20 °C +55 °C    |

## Classifications

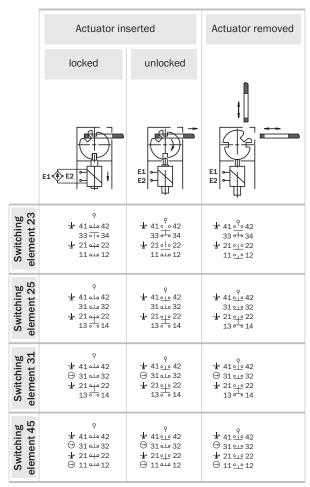
| ECLASS 5.0   | 27272603 |
|--------------|----------|
| ECLASS 5.1.4 | 27272603 |
| ECLASS 6.0   | 27272603 |
| ECLASS 6.2   | 27272603 |
| ECLASS 7.0   | 27272603 |
| ECLASS 8.0   | 27272603 |
| ECLASS 8.1   | 27272603 |
| ECLASS 9.0   | 27272603 |
| ECLASS 10.0  | 27272603 |
| ECLASS 11.0  | 27272603 |
| 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))



## Switching elements



<sup>→</sup> 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)

<sup>⊖</sup> Positive action N/C door monitoring contact

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