

i200-E0323 Lock

i200 Lock

**SAFETY LOCKING DEVICES** 

**SICK**Sensor Intelligence.



### Ordering information

Туре	Part no.
i200-E0323 Lock	6026140

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

Other models and accessories → www.sick.com/i200\_Lock

actuator not supplied with delivery



### Detailed technical data

### **Features**

Sensor principle	Electro-mechanical
Locking principle	Power to lock
Number of positive action N/C solenoid monitoring contacts	1
Number of N/O solenoid monitoring contacts	1
Number of positive action N/C door monitoring contacts	2
Number of N/O door monitoring contacts	1
Number of N/C door monitoring contacts	0
Locking force F <sub>max</sub>	2,600 N (EN ISO 14119) <sup>1)</sup>
Locking force F <sub>Zh</sub>	2,000 N (EN ISO 14119)
Retaining force	≤ 30 N
Actuation frequency	≤ 3,600 /h
Actuation directions	3
Approach speed	≤ 10 m/min

 $<sup>^{1)}\,\</sup>mbox{Only}$  in combination with the delivered fixing screws, otherwise 1950 N.

### Safety-related parameters

B <sub>10d</sub> parameter	2 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

Interfaces	
Connection type	Cable gland, 3 x M20
Status display	✓

None, only individual wiring (with diagnostics)

#### Flectrical data

Electrical data	
Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	3 A (240 V AC) 3 A (24 V DC)
Rated insulation voltage U <sub>i</sub>	500 V
Rated impulse with stand voltage $\mathbf{U}_{\mathrm{imp}}$	2,500 V
Type of output	Electro-mechanical contacts
Power consumption	≤ 7 W
Short-circuit protection	3 A gG
Switching voltage	≥ 5 V DC
Switching current (switching voltage)	≥ 5 mA (5 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	0.55 kg
Housing material	Glass-fiber reinforced polyester
Mechanical life	1 x 10 <sup>6</sup> switching cycles

### Ambient data

Enclosure rating	IP65
Ambient operating temperature	-20 °C +60 °C
Storage temperature	-20 °C +60 °C

### Classifications

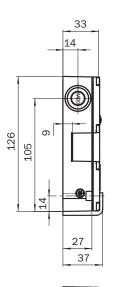
eCl@ss 5.0	27272603
eCl@ss 5.1.4	27272603
eCl@ss 6.0	27272603
eCl@ss 6.2	27272603
eCl@ss 7.0	27272603
eCl@ss 8.0	27272603
eCl@ss 8.1	27272603
eCl@ss 9.0	27272603
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eCl@ss 11.0	27272603
eCl@ss 12.0	27272603
ETIM 5.0	EC002593

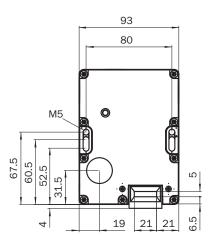
# i200-E0323 Lock | i200 Lock

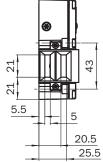
SAFETY LOCKING DEVICES

ETIM 6.0	EC002593
ETIM 7.0	EC002593
ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

## Dimensional drawing (Dimensions in mm (inch))

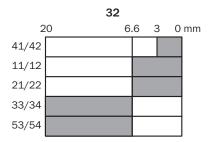


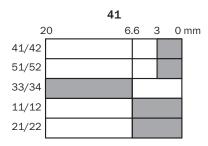




### Actuator travel diagram

Contact action over the entire actuator withdrawl distance (full insertion = 0 mm)

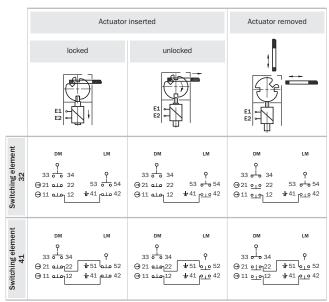




□ Contacts open

■ Contacts closed

### Switching elements



 $<sup>\</sup>frac{1}{\mathbf{P}}$  Positive action N/C locking monitoring contact

# LM: Locking monitoring contacts DM: Door monitoring contacts

#### Switching element 32:

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

#### Switching element 41:

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

<sup>⊖</sup> 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.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

# **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

