

i200-M0413 Lock

i200 Lock

SAFETY LOCKING DEVICES

SICKSensor Intelligence.



Ordering information

Туре	Part no.
i200-M0413 Lock	6025115

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 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	2
Number of N/O door monitoring contacts	1
Number of N/C door monitoring contacts	0
Locking force F _{max}	2,600 N (EN ISO 14119) ¹⁾
Locking force F _{Zh}	2,000 N (EN ISO 14119)
Retaining force	≤ 30 N
Actuation frequency	≤ 3,600 /h
Actuation directions	3
Approach speed	≤ 10 m/min

 $^{^{1)}}$ Only in combination with the delivered fixing screws, otherwise 1950 N.

Safety-related parameters

B _{10d} parameter	2 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)

Interfaces

Connection type	Cable gland, 3 x M20
Status display	✓

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 _i	500 V
Rated impulse withstand 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 release

Mechanical data

Weight	0.55 kg
Housing material	Glass-fiber reinforced polyester
Mechanical life	1 x 10 ⁶ switching cycles

Ambient data

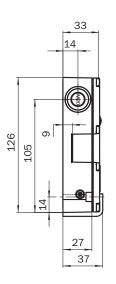
Enclosure rating	IP65
Ambient operating temperature	-20 °C +60 °C
Storage temperature	-20 °C +60 °C

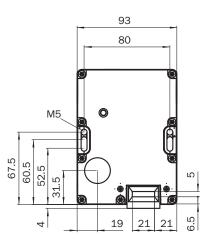
Classifications

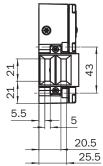
eCl@ss 5.0	27272603
eCl@ss 5.1.4	27272603
eCl@ss 6.0	27272603
eCl@ss 6.2	27272603
eCl@ss 7.0	27272603
eCl@ss 8.0	27272603
eCl@ss 8.1	27272603
eCl@ss 9.0	27272603
eCl@ss 10.0	27272603
eCl@ss 11.0	27272603
eCl@ss 12.0	27272603
ETIM 5.0	EC002593
ETIM 6.0	EC002593
ETIM 7.0	EC002593

ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))

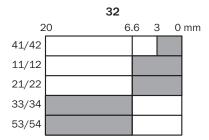


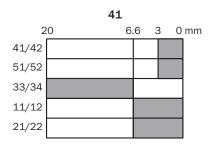




Actuator travel diagram

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

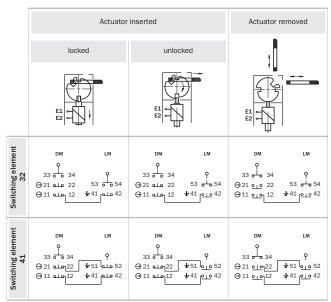




□ Contacts open

Contacts closed

Switching elements



 $[\]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)

[⊖] Positive action N/C door monitoring contact

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