



DATA SHEET

i200-M0413 Lock

i200 Lock
Safety locking devices

SAFETY LOCKING DEVICES

i200-M0413 Lock

ORDERING INFORMATION

Type	part no.
i200-M0413 Lock	6025115

Further device versions and accessories at www.sick.com/i200_Lock



actuator not supplied with delivery



DETAILED TECHNICAL DATA

FEATURES

Sensor principle	Electro-mechanical
Locking principle	Power to release
Positive action N/C solenoid monitoring contacts	2
N/O solenoid monitoring contacts	0
Positive action N/C door monitoring contacts	2
N/O door monitoring contacts	1
N/C contact for door monitoring	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	2×10^6 switching cycles (with small load)
Type	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)
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INTERFACES

Connection type	Cable gland, 3 x M20
Display elements	LEDs
Status display	✓

ELECTRONICS

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 U_{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

MECHANICS

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

AMBIENT DATA

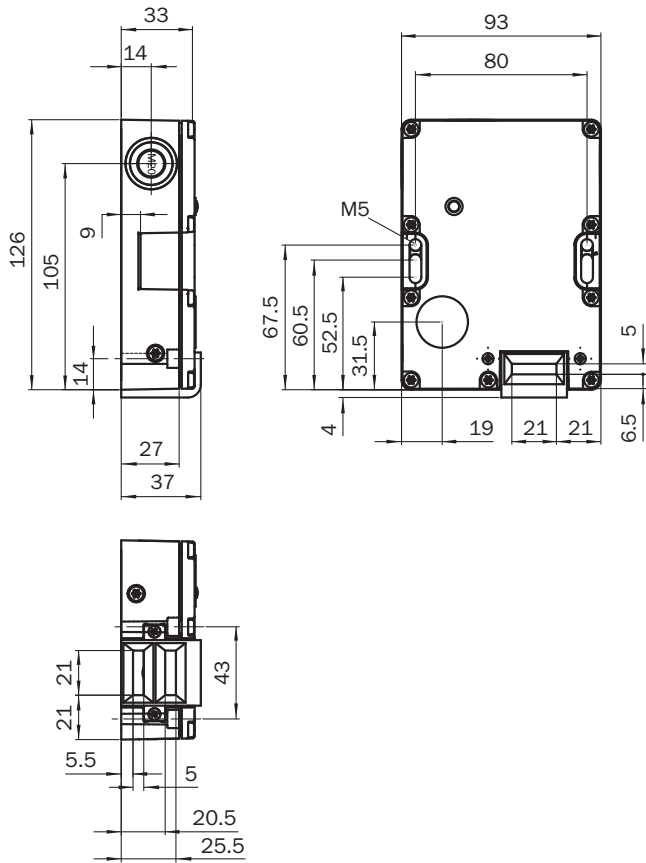
Enclosure rating	IP65
Ambient operating temperature	-20 °C ... +60 °C
Storage temperature	-20 °C ... +60 °C

CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
cULus certificate	✓

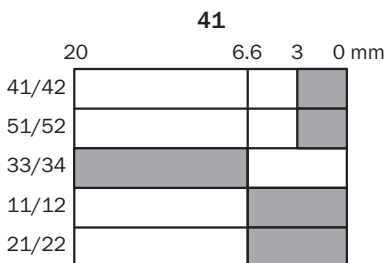
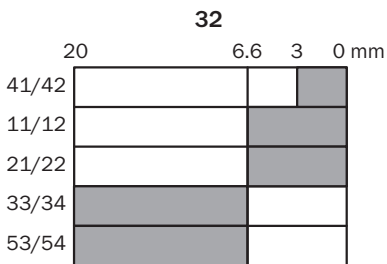
SAFETY LOCKING DEVICES - I200-M0413 LOCK

DIMENSIONAL DRAWING



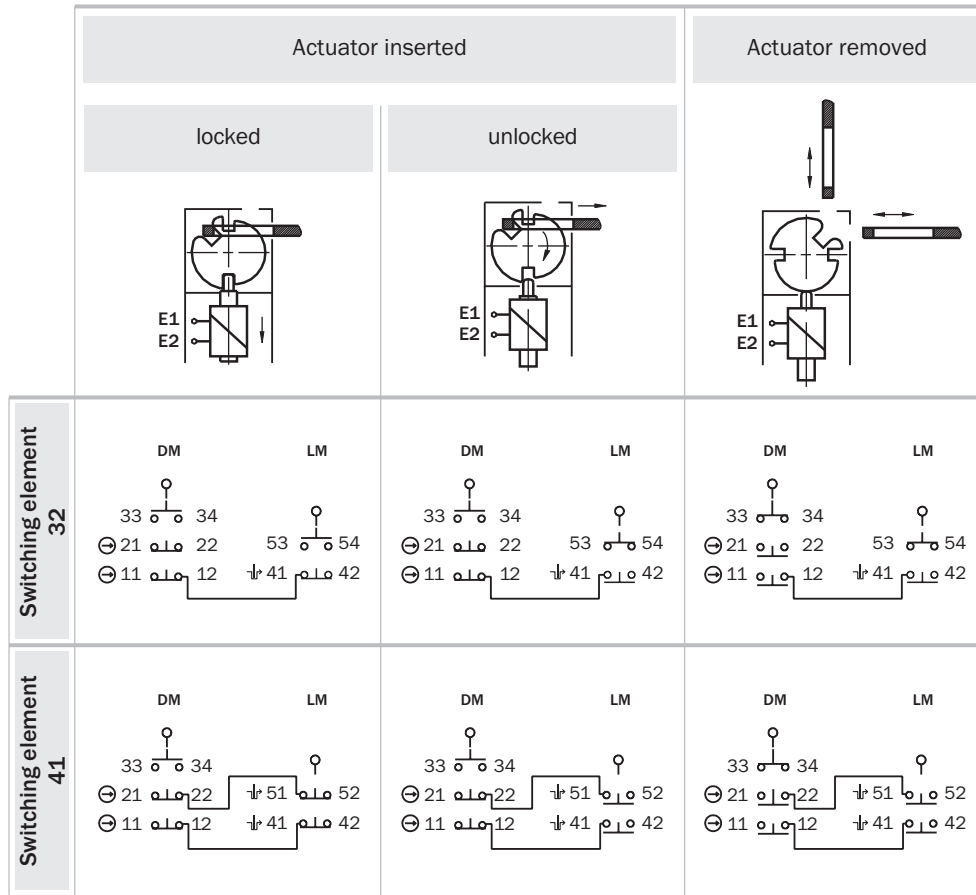
Dimensions in mm (inch)

ACTUATOR TRAVEL DIAGRAM CONTACT ACTION OVER THE ENTIRE ACTUATOR WITHDRAWAL DISTANCE (FULL INSERTION = 0 MM)



- Contacts open
- Contacts closed

SWITCHING ELEMENTS



⤴ Positive action N/C locking monitoring contact
 ⊖ Positive action N/C door 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 positive action N/C contacts + 1 N/O contact (Door monitoring)

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6025115



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SICK AT A GLANCE

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SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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