

i15-EM0133 Lock

i15 Lock

SAFETY LOCKING DEVICES





Ordering information

Туре	part no.
i15-EM0133 Lock	6034029

Other models and accessories → www.sick.com/i15_Lock

actuator not supplied with delivery







Detailed technical data

Features

Sensor principle	Electro-mechanical
Locking principle	Power to lock
Positive action N/C solenoid monitoring contacts	1
N/O solenoid monitoring contacts	0
Positive action N/C door monitoring contacts	1
N/O door monitoring contacts	1
N/C contact for door monitoring	0
Locking force F _{max}	2,000 N (EN ISO 14119) ¹⁾
Locking force F _{Zh}	1,500 N (EN ISO 14119)
Actuation force	≥ 35 N
Retaining force	≤ 30 N
Actuation frequency	≤ 7,000 /h
Actuation directions	4
Approach speed	≤ 20 m/min

 $^{^{1)}\,1500\,\}mathrm{N}$ with angled actuator.

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)
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Interfaces

Connection type	Cable gland, 1 x M20
Conductor cross section	0.34 mm ² 1.5 mm ²

Electronics

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 with stand voltage $\mathbf{U}_{\mathrm{imp}}$	2,500 V
Type of output	Electro-mechanical contacts
Power consumption	≤ 6 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 lock

Mechanics

Weight	0.48 kg
Housing material	Glass-fiber reinforced thermoplastic
Actuator head material	Metal
Mechanical life	2 x 10 ⁶ switching cycles

Ambient data

Enclosure rating	IP67
Ambient operating temperature	-20 °C +55 °C
Storage temperature	-20 °C +55 °C

Certificates

EU declaration of conformity	1
UK declaration of conformity	√
China RoHS	√
cULus certificate	√
EC-Type-Examination approval	√
Third party certificate	1

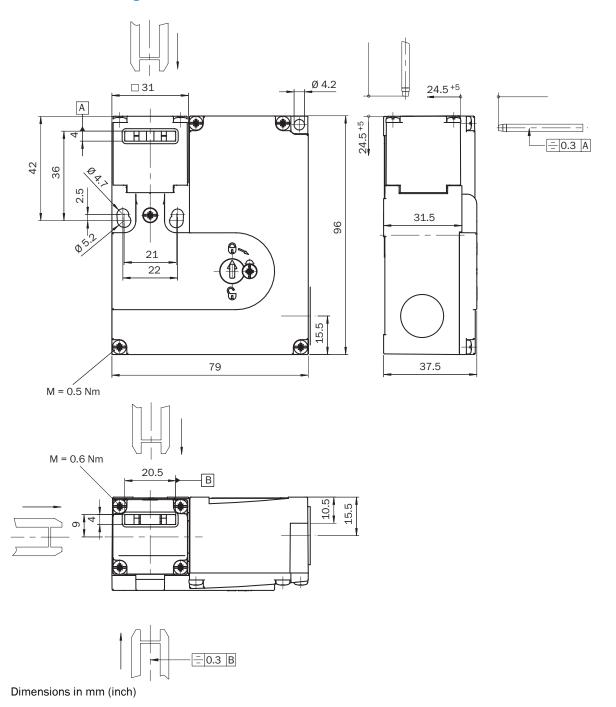
Classifications

ECLASS 5.0	27272603
ECLASS 5.1.4	27272603
ECLASS 6.0	27272603
ECLASS 6.2	27272603
ECLASS 7.0	27272603

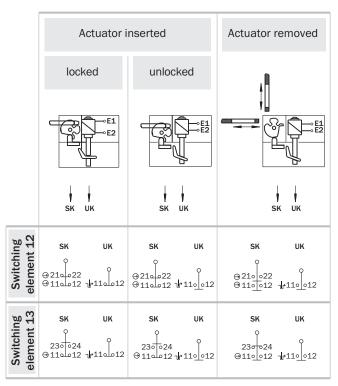
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ECLASS 8.0	27272603
ECLASS 8.1	27272603
ECLASS 9.0	27272603
ECLASS 10.0	27272603
ECLASS 11.0	27272603
ECLASS 12.0	27272603
ETIM 5.0	EC002593
ETIM 6.0	EC002593
ETIM 7.0	EC002593
ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

Dimensional drawing



Switching elements



[→] Positive action N/C locking monitoring contact

UK: Locking monitoring contacts SK: Door monitoring contacts

Switching element 12:

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

Switching element 13:

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

[⊖] Positive action N/C door monitoring contact

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