

i10-E0453 Lock

SAFETY LOCKING DEVICES



i10-E0453 Lock | i10 Lock

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Ordering information

Туре	Part no.
i10-E0453 Lock	6020598

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

Number of positive action N/C solenoid monitoring contacts	2
Number of N/O solenoid monitoring con- tacts	0
Number of positive action N/C door moni- toring contacts	2
Number of N/O door monitoring contacts	0
Number of N/C door monitoring contacts	0
Locking force F _{max}	1,300 N (EN ISO 14119)
With straight actuator	EN ISO 14119
With angled actuator	EN ISO 14119
With hinged actuator	EN ISO 14119
Locking force Fzh	1,000 N (EN ISO 14119)
Actuation force	≥ 10 N
Actuation frequency	≤ 7,000 /h
Actuation directions	4
Approach speed	≤ 20 m/min

Safety-related parameters

B _{10d} parameter	3 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.

Interfaces

Connection type		Cable gland, 3 x M20
	Conductor cross-section	0.34 mm ² 1.5 mm ²

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) 4 A (24 V DC)
Rated insulation voltage U _i	250 V
Rated impulse withstand voltage \mathbf{U}_{imp}	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 ⁶ switching cycles

Ambient data

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

Classifications

ECI@ss 5.0	27272603
ECI@ss 5.1.4	27272603
ECI@ss 6.0	27272603
ECI@ss 6.2	27272603
ECI@ss 7.0	27272603
ECI@ss 8.0	27272603
ECI@ss 8.1	27272603
ECI@ss 9.0	27272603
ETIM 5.0	EC002593
ETIM 6.0	EC002593
UNSPSC 16.0901	39122205

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Dimensional drawing (Dimensions in mm (inch))



Switching elements

	Actuator inserted		Actuator removed
	locked	unlocked	
Switching element 23	ې ۲ 41 ملم 42 33 م م م 34 ۲ 21 ملم 22 11 مدم 12	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \end{array}\\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	Ψ ¹ / ₂ 41 <u>0⁹0</u> 42 33 0 / ₂ 34 ¹ / ₂ 21 <u>010</u> 22 11 <u>010</u> 12
Switching element 25	ې 14 مامه 42 31 مامه 32 17 21 موله 22 13 مه 14	$ \begin{array}{c} \circ \\ \bullet & 41 \circ 1 \circ 42 \\ 31 \circ 1 \circ 32 \\ \bullet & 21 \circ 1 \circ 22 \\ 13 \circ & 0 14 \end{array} $	$ \begin{array}{c} 1^{1} & 41 \stackrel{0}{_{-10}} & 42 \\ 31 \stackrel{0}{_{-10}} & 32 \\ 1^{1} & 21 \stackrel{0}{_{-10}} & 22 \\ 13 \stackrel{0}{_{-10}} & 14 \end{array} $
Switching element 31	γ 1/ 41 α Lα 42 ⊖ 31 α Lα 32 1/ 21 α Lα 22 13 ° α 14	$ \begin{array}{c} $	
Switching element 45	γ 1 41 α Lα 42 ⊖ 31 α Lα 32 1 21 α μα 22 ⊖ 11 α μα 12	γ ψ 41 <u>010</u> 42 Θ 31α↓σ 32 ψ 21 <u>0</u> ↓0 22 Θ 11α↓σ 12	

- Positive action N/C locking monitoring contact

 \ominus Positive action N/C door 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)

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Online data sheet

