

i10-E0233 Lock

SAFETY LOCKING DEVICES



i10-E0233 Lock | i10 Lock

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Ordering information

Туре	Part no.
i10-E0233 Lock	6022585

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

i catules			
Sensor principle	Electro-mechanical		
Locking principle	Power to lock		
Number of positive action N/C solenoid monitoring contacts	2		
Number of N/O solenoid monitoring con- tacts	1		
Number of positive action N/C door moni- toring contacts	0		
Number of N/O door monitoring contacts	0		
Number of N/C door monitoring contacts	1		
Locking force F _{max}	1,300 N (EN ISO 14119)		
Locking force F _{Zh}	1,000 N (EN ISO 14119)		
Actuation force	≥ 10 N		
Retaining force	≤ 20 N		
Actuation frequency	≤ 1,200 /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.		
Functions			

None, only individual wiring (with diagnostics)

Safe series connection

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Interfaces

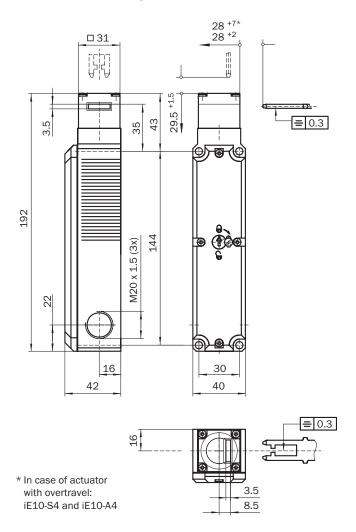
Interfaces	
Connection type	Cable gland, 3 x M20
Conductor cross section	0.34 mm ² 1.5 mm ²
Electrical data	
Contamination rating	3
Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	4 A (230 V AC) 4 A (24 V DC)
Rated insulation voltage U _i	250 V
Rated impulse withstand voltage $\mathbf{U}_{\mathrm{imp}}$	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	
ECLASS 5.0	27272603
ECLASS 5.1.4	27272603
ECLASS 6.0	27272603
ECLASS 6.2	27272603
ECLASS 7.0	27272603
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

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ETIM 7.0	EC002593
ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

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 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} \\ \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} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} $	Ψ ¹ / ₂ 41.0 ⁹ .0 42 33.9 ⁴ / ₂ 34 ¹ / ₂ 21.01.0 22 11.01.0 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} $	$ \frac{1}{1} 41 \frac{9}{210} 42 \\ 31 \frac{9}{210} 32 \\ \frac{1}{1} 21 \frac{9}{210} 22 \\ 13 \frac{9}{210} 14 $
Switching element 31	γ 1/ 41 α Lα 42 ⊖ 31 α Lα 32 1/ 21 α Lα 22 13 ° α 14	$ \begin{array}{c} $	$ \frac{1}{10} + 41 \frac{9}{20} \cdot 42 \\ \ominus 31 \underbrace{10}{20} \cdot 32 \\ \frac{1}{10} + 21 \underbrace{10}{22} \\ 13 \underbrace{14} - 14 $
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	$ \begin{array}{c} 1^{lr} & 41 \stackrel{\circ}{10} & 42 \\ \Theta & 31 \stackrel{\circ}{010} & 32 \\ 1^{lr} & 21 \stackrel{\circ}{010} & 22 \\ \Theta & 11 \stackrel{\circ}{010} & 12 \end{array} $

- 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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