Product data sheet



i10-E0313S02 Lock

i10 Lock

SAFETY LOCKING DEVICES

SICK
Sensor Intelligence.



actuator not supplied with delivery

Ordering information

Type	Part no.
i10-E0313S02 Lock	6011368

The actuator has to be ordered separately. See "Accessories" for further details.

Other models and accessories → www.sick.com/i10_Lock

Detailed technical data

Features

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 contacts	0
Number of positive action N/C door monitoring contacts	1
Number of N/O door monitoring contacts	1
Number of N/C door monitoring contacts	0
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)
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)

Interfaces

Connection type	Cable gland, 3 x M20
Conductor cross section	0.34 mm² ... 1.5 mm²

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 U_{imp}	2,500 V
Type of output	Electro-mechanical contacts
Power consumption	≤ 8 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

Mechanical data

Weight	0.46 kg
Housing material	Glass-fiber reinforced thermoplastic
Mechanical life	1 x 10^6 switching cycles

Ambient data

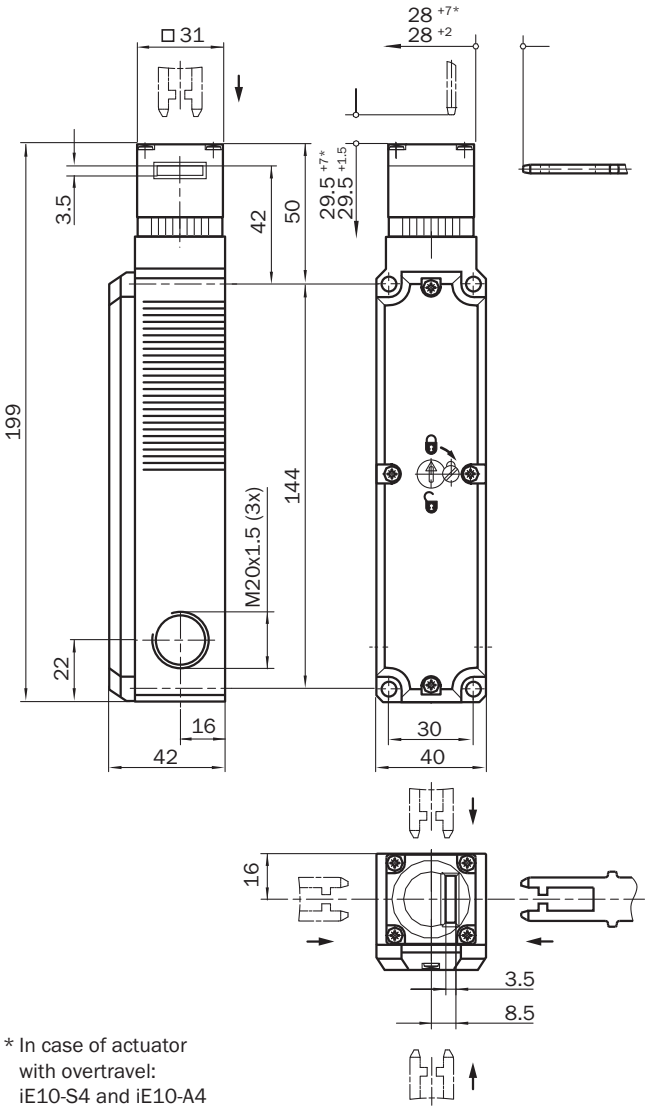
Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	–20 °C ... +55 °C
Storage temperature	–20 °C ... +55 °C

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

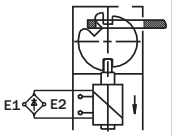
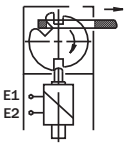
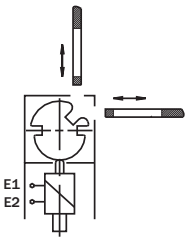
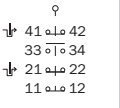
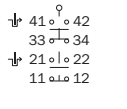
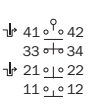
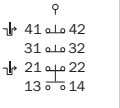
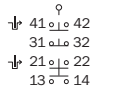
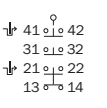
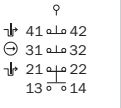
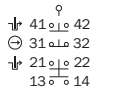
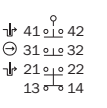
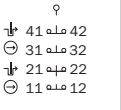
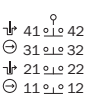
ETIM 7.0	EC002593
ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))



* In case of actuator with overtravel: iE10-S4 and iE10-A4

Switching elements

	Actuator inserted		Actuator removed
	locked	unlocked	
			
Switching element 23			
Switching element 25			
Switching element 31			
Switching element 45			

Positive action N/C locking monitoring contact
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)

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

SICK:

IME12-08NPSZW2K MPS-160TSTP0 PLV14-A YF8U14-050UA3XLEAX WTB2S-2P3230
IME12-04BPOZW2K BEF-KHZT01MPA BEF-WN-W18 IM18-12NNS-ZQD KUP-0610-S IME08-04NPSZW2K
WL11-2P2432 WTB26I-24161420A00 C4P-SA03031A00 IMB12-04BNPVC0S WFM50-60P311
DFS60B-S4PC10000 IME12-04BNOZC0S S30A-XXXXBA GL10G-P4251 IMB12-04BPPVC0K
IMB18-12NPSVC0S LFP2000-A4NMB MPS-128TSTP0 SBO-02F12-SM1 VT12T-2P112
C4C-SA06030A10000 FX3-MPL000001 IME12-04BPSZW2S YF8U14-020UA3XLEAX