

i110-E0354 i110 Lock

SAFETY LOCKING DEVICES



GICK HILD LEVEL C

Ordering information

Туре	Part no.
i110-E0354	6053945

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

Other models and accessories → www.sick.com/i110_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	2
N/O door monitoring contacts	0
N/C door monitoring contacts	0
Locking force F _{max}	2,500 N (EN ISO 14119) ¹⁾
Locking force F _{Zh}	2,000 N (EN ISO 14119) ²⁾
Actuation force	≥ 35 N
Retaining force	≤ 30 N
Actuation frequency	≤ 1,200 /h
Actuation directions	5
Approach speed	≤ 20 m/min
For process protection only	✓

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

Safety-related parameters

B _{10d} parameter	5 x 10 ⁶ switching cycles (with small load)
Туре	Type 2 (EN ISO 14119)
Actuator coding level	Low coding level (EN ISO 14119)

²⁾ 1150 N with angled actuator.

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 connections	With Flexi Loop (with diagnostics)
Interfaces	
Connection type	Plug connector, M12, 8-pin
Coupling nut material	Brass

Electronics

Contamination rating	3
Switching principle	Slow action switching element
Usage category	AC-15/DC-13 (IEC 60947-5-1)
Rated operating current (voltage)	1 A (24 V AC) 1 A (24 V DC)
Rated insulation voltage U _i	30 V
Rated impulse with stand voltage $\mathbf{U}_{\mathrm{imp}}$	1,500 V
Type of output	Electro-mechanical contacts
Power consumption	≤ 8 W
Short-circuit protection	1 A gG
Switching voltage	≥ 12 V DC
Switching current (switching voltage)	1 mA (24 V DC)
Switch-on time of magnet	100 %
Locking principle	Power to lock

Mechanics

Weight	0.5 kg
Housing material	Glass-fiber reinforced thermoplastic
Actuator head material	Metal
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

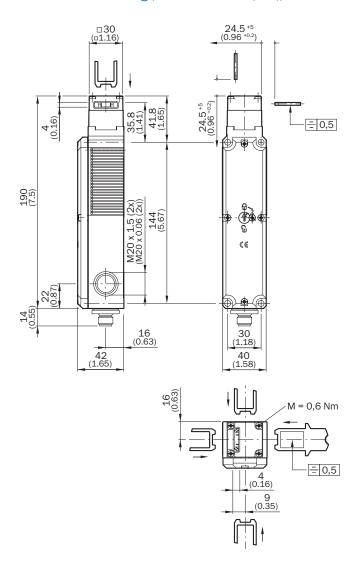
Classifications

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

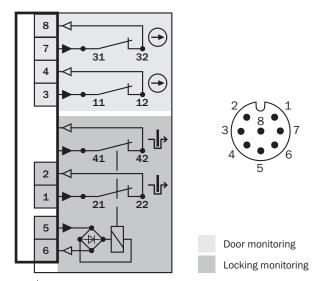
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ECLASS 11.0	27272603
ECLASS 12.0	27272603
ETIM 5.0	EC002593
ETIM 6.0	EC002593
ETIM 7.0	EC002593
ETIM 8.0	EC002593
UNSPSC 16.0901	39122205

Dimensional drawing (Dimensions in mm (inch))

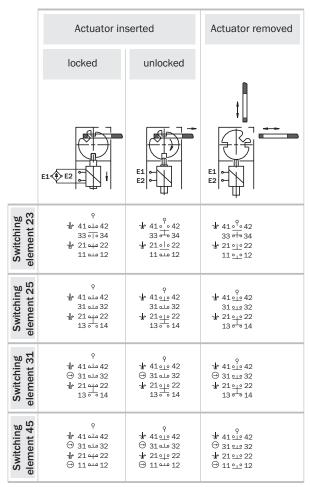


Pinouts



- $\ensuremath{ \mbox{\fontfamily Positive}}$ Positive action N/C locking monitoring contact
- $\ensuremath{\boxdot}$ Positive action N/C door monitoring contact

Switching elements



[√] Positive action N/C locking 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)

 $[\]ensuremath{\boxdot}$ Positive action N/C door monitoring contact

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