

i110-M0454 i110 Lock

**SAFETY LOCKING DEVICES** 





## Ordering information

Туре	Part no.
i110-M0454	6051602

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 release
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	0
Number of N/C door monitoring contacts	0
Locking force F <sub>max</sub>	2,500 N (EN ISO 14119) <sup>1)</sup>
Locking force F <sub>Zh</sub>	2,000 N (EN ISO 14119) <sup>2)</sup>
Actuation force	≥ 35 N
Retaining force	≤ 30 N
Actuation frequency	≤ 1,200 /h
Actuation directions	5
Approach speed	≤ 20 m/min

 $<sup>^{1)}</sup>$  1500 N with angled actuator.

#### Safety-related parameters

B <sub>10d</sub> parameter	5 x 10 <sup>6</sup> 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.

<sup>2) 1150</sup> N with angled actuator.

#### **Functions**

Safe series connection	With Flexi Loop (with diagnostics)
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#### Interfaces

Connection type	Plug connector, M12, 8-pin
Coupling nut material	Brass

## 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)	1 A (24 V AC) 1 A (24 V DC)
Rated insulation voltage U <sub>i</sub>	30 V
Rated impulse with stand voltage $\mathbf{U}_{\mathrm{imp}}$	1,500 V AC
Type of output	Electro-mechanical contacts
Power consumption	≤ 8 W
Power consumption Short-circuit protection	≤ 8 W 1 A gG
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Short-circuit protection	1 A gG
Short-circuit protection Switching voltage	1 A gG ≥ 12 V DC

#### Mechanical data

Weight	0.5 kg
Housing material	Glass-fiber reinforced thermoplastic
Actuator head material	Metal
Mechanical life	1 x 10 <sup>6</sup> switching cycles

## Ambient data

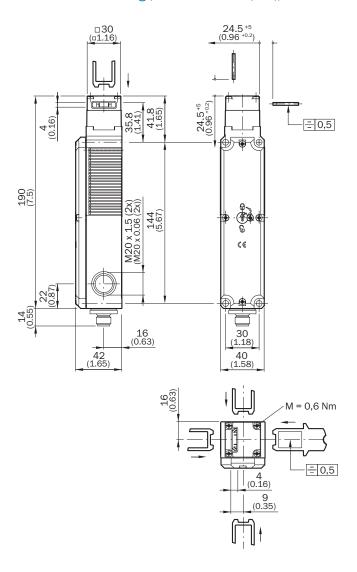
Enclosure rating	IP67 (IEC 60529)
Ambient operating temperature	-20 °C +55 °C
Storage temperature	-20 °C +55 °C

## Classifications

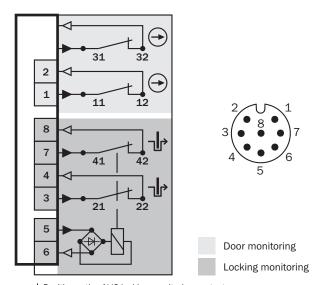
ECLASS 5.0	27272603
ECLASS 5.1.4	27272603
ECLASS 6.0	27272603
ECLASS 6.2	27272603
ECLASS 7.0	27272603
ECLASS 8.0	27272603
ECLASS 8.1	27272603
ECLASS 9.0	27272603
ECLASS 10.0	27272603
ECLASS 11.0	27272603
ECLASS 12.0	27272603

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))



# Pin assignment



 $\ensuremath{\mbox{\rlap/ P}}$  Positive action N/C locking monitoring contact

 $<sup>\</sup>ensuremath{\boxdot}$  Positive action N/C door monitoring contact

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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."

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