



## i110 Lock

Rugged electro-mechanical safety locking device with door monitoring

**SICK**  
Sensor Intelligence.



## Technical data overview

<b>Type</b>	Type 2, electro-mechanical (EN ISO 14119)
<b>Actuator coding level</b>	Low coding level (EN ISO 14119)
<b>Type of output</b>	Electro-mechanical contacts
<b>Locking principle</b>	Power to lock / power to release (depending on type)
<b>Locking monitoring</b>	✓
<b>Door monitoring</b>	✓
<b>Locking force <math>F_{Zh}</math></b>	2,000 N (EN ISO 14119) <sup>1)</sup>
<b>Connection type</b>	Cable gland, 3 x M20 Plug connector, M12, 8-pin (depending on type)

<sup>1)</sup> 1150 N with angled actuator.

## Product description

The i110 Lock safety locking device is used for keeping guards safely locked until a hazardous area can be entered. The locking device has a narrow housing made from plastic and a rugged metal actuator head. This allows the i110 Lock safety switch to achieve the highest restraint forces in this product family.

## At a glance

- Narrow plastic housing
- Metal actuator head
- Rigid or mobile actuators
- Available with M20 X 1.5 cable entry glands or Flexi Loop-compatible M12 plug connector (depending on variant)
- Power to lock or power to release variants
- Lock and door monitoring

## Your benefits

- Small design simplifies installation and makes it easy to mount directly on the guard door frame
- Flexible electrical connectivity due to three cable entry glands
- Improved diagnostics due to additional contacts for door monitoring
- Simple adjustment due to various actuators that are suitable for any door
- Different switching elements offer the appropriate solution for electrical installation
- Rugged metal housing provides increased machine reliability, even when the guard has a mechanical offset
- Flexi Loop now enables a safe series connection with enhanced diagnostics capabilities and minimal wiring effort.

## Fields of application

- Safe monitoring of rotatable, laterally sliding or removable guards
- Personal protection for overtravel
- Process protection for automated production systems

## Ordering information

Other models and accessories → [www.sick.com/i110\\_Lock](http://www.sick.com/i110_Lock)

- **Locking principle:** power to lock
- **Locking force  $F_{Zh}$ :** 2,000 N

Connection type Detail	Safe series connection	Number of positive action N/C solenoid monitoring contacts	Number of N/O solenoid monitoring contacts	Number of positive action N/C door monitoring contacts	Type	Part no.
Cable gland, 3 x M20	None, only individual wiring (with diagnostics)	2	0	0	i110-E0253	6051599
				1	i110-E0313S06	6035038
				2	i110-E0453	6051601
		1	0	i110-E0233	6051597	
Plug connector, M12, 8-pin	With Flexi Loop (with diagnostics)	1	0	2	i110-E0354	6053945
		2	0	1	i110-E0454	6051603

- **Locking principle:** power to release
- **Locking force  $F_{Zh}$ :** 2,000 N
- **Number of positive action N/C solenoid monitoring contacts :** 2

Connection type Detail	Safe series connection	Number of N/O solenoid monitoring contacts	Number of positive action N/C door monitoring contacts	Type	Part no.
Cable gland, 3 x M20	None, only individual wiring (with diagnostics)	0	0	i110-M0253	6051598
			2	i110-M0453	6051600
		1	0	i110-M0233	6051596
Plug connector, M12, 8-pin	With Flexi Loop (with diagnostics)	0	1	i110-M0454	6051602

## 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](http://www.sick.com)