



i10 Lock

Tried-and-proven electro-mechanical safety locking device with door monitoring

SICK
Sensor Intelligence.



Technical data overview

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

Product description

The i10 Lock safety locking device is used for keeping guards safely locked until a hazardous area can be entered. The locking device features a narrow design that enables easy mounting directly on the guard framework. Different switching elements and actuators make it both mechanically and electrically flexible. As a result, this safety switch can be adapted to nearly any application.

At a glance

- Narrow plastic housing
- 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
- IP 67 enclosure rating

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 signaling contacts
- Practical, simple adjustment due to various actuators that are suitable for any door
- Different switching elements offer the appropriate solution for electrical installation
- 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/i10_Lock

- **Locking principle:** power to lock
- **Locking force F_{Zh} :** 1,000 N

Connection type Detail	Safe series connection	Positive action N/C solenoid monitoring contacts	N/O solenoid monitoring contacts	Positive action N/C door monitoring contacts	Type	Part no.
Cable gland, 3 x M20	None, only individual wiring (with diagnostics)	2	0	0	i10-E0253 Lock	6020536
				1	i10-E0313S02 Lock	6011368
				2	i10-E0453 Lock	6020598
			1	0	i10-E0233 Lock	6022585
Plug connector, M12, 8-pin	With Flexi Loop (with diagnostics)	1	0	2	i10-E0354 Lock	6053788
		2	0	1	i10-E0454 Lock	6045056

- **Locking principle:** power to release
- **Locking force F_{Zh} :** 1,000 N
- **Positive action N/C solenoid monitoring contacts:** 2

Connection type Detail	Safe series connection	N/O solenoid monitoring contacts	Positive action N/C door monitoring contacts	Type	Part no.
Cable gland, 3 x M20	None, only individual wiring (with diagnostics)	0	0	i10-M0253 Lock	6027397
			2	i10-M0453 Lock	6029934
		1	0	i10-M0233 Lock	6022580
Plug connector, M12, 8-pin	With Flexi Loop (with diagnostics)	0	1	i10-M0454 Lock	6045055

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