TR10 Lock

RFID-monitored safety locking device with high manipulation protection

SICK
Sensor Intelligence.

TR10 Lock

Technical data overview

Type	Type 4, RFID (EN ISO 14119)
Actuator coding level	Low coding level (EN ISO 14119) High coding level (EN ISO 14119)
Type of output	Self-monitoring semiconductor outputs (OSSDs)
Locking principle	Power to release / power to lock (depending on type)
Locking monitoring	✓
Door monitoring	✓
Locking force F_{Zh}	1,300 N (EN ISO 14119)
Connection type	Cable with plug M12, 8-pin Cable (depending on type)
LED	✓

Product description

The TR10 Lock safety locking device combines the best features of tried-and-tested technology: outstanding manipulation-proofing for the RFID technology that monitors the actuator, plus a high-strength, highly reliable mechanical locking mechanism. The sensor's self-monitoring semiconductor outputs (OSSDs) can be cascaded and, thanks to a PL e performance level (EN ISO 13849), ensure maximum safety – for both door monitoring and locking monitoring. Two codings are available, affording applications more flexibility. The universally coded sensors accept all suitable actuators, while uniquely coded sensors only allow actuators that have previously been taught in. The bistable solenoid coil consumes only a small amount of power and produces no heat when the system is either locked or unlocked.

At a glance

- PL e for door and locking monitoring (EN ISO 13849)
- 1,690 N locking force
- RFID actuator with low or high coding level (EN ISO 14119)
- Enclosure rating IP 67, IP 69K
- Power to lock or power to release variants
- Reliable series connection of safety outputs (OSSDs)
- Four actuation directions
- Flexi-Loop-ready

Your benefits

- The high coding level of the actuator meets all the EN ISO 14119 requirements relating to manipulation-proofing without additional measures
- Self-monitoring semiconductor outputs (OSSDs) afford a high level of safety
- Reliable series connection reduces installation work
- Rugged IP 69K housing ideally suited to use in heavily contaminated environments
- Slim housing design with flexible actuator installation options enables simple machine integration
- Bistable solenoid coil consumes only a small amount of power and produces no heat when the system is either locked or unlocked
- Fast diagnosis via LED status indicator

Fields of application

- Protection of persons in the event of the machine making dangerous overrun movements
- Process protection for automated production systems
- Applications requiring a high standard of hygiene
- Applications requiring a high level of manipulation-proofing

Ordering information

Other models and accessories → www.sick.com/TR10_Lock

- **Locking force F$_{zh}$:** 1,300 N

Locking principle	Coding	Connection type Detail	Length of cable	Safe series connections	Type	Part no.
Power to lock	Uniquely coded	Cable	3 m	In control cabinet (with diagnostics)	TR10-SLU03P	6054766
			10 m	In control cabinet (with diagnostics)	TR10-SLU10P	6054767
		Cable with plug M12, 8-pin	0.2 m	With T-connector (without diagnostics), with Flexi Loop (with diagnostics)	TR10-SLU01C	6054768
	Universally coded	Cable	3 m	In control cabinet (with diagnostics)	TR10-SLM03P	6054759
			10 m	In control cabinet (with diagnostics)	TR10-SLM10P	6054760
		Cable with plug M12, 8-pin	0.2 m	With T-connector (without diagnostics), with Flexi Loop (with diagnostics)	TR10-SLM01C	6054761
Power to release	Uniquely coded	Cable	3 m	In control cabinet (with diagnostics)	TR10-SRU03P	6054762
			10 m	In control cabinet (with diagnostics)	TR10-SRU10P	6054763
		Cable with plug M12, 8-pin	0.2 m	With T-connector (without diagnostics), with Flexi Loop (with diagnostics)	TR10-SRU01C	6054764
	Universally coded	Cable	3 m	In control cabinet (with diagnostics)	TR10-SRM03P	6054756
			10 m	In control cabinet (with diagnostics)	TR10-SRM10P	6054757
		Cable with plug M12, 8-pin	0.2 m	With T-connector (without diagnostics), with Flexi Loop (with diagnostics)	TR10-SRM01C	6054758

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**

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