



TR110 Lock

RFID-monitored safety locking device with high manipulation protection

SICK
Sensor Intelligence.



Technical data overview

Type	Type 4, RFID (EN ISO 14119)
Actuator coding level	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_{Zn}	3,000 N (EN ISO 14119) 1,100 N (EN ISO 14119) 2,000 N (EN ISO 14119)
Escape release	- / ✓ (depending on type)
Connection type	Plug connector, M12, 8-pin Plug connector, M12, 8-pin and plug connector, M12, 5-pin (depending on type)
LED	✓

Product description

The TR110 Lock safety locking device unites the advantages of proven technologies: high manipulation protection of the RFID technology for monitoring the actuator and the ruggedness and reliability of the mechanical locking device. The self-monitoring semiconductor outputs (OSSDs) with PL e (EN ISO 13849) result in a high level of safety, both for the door and for the locking monitoring. The optional escape release enables unlocking of the locking device from the hazardous area. The variants with two illuminable pushbuttons make it possible to trigger control signals such as door requests or resets directly on the safety switch.

At a glance

- PL e for door and locking monitoring (EN ISO 13849)
- Locking force: up to 3,900 N
- Actuator with high coding level (EN ISO 14119)
- Enclosure rating: IP67, IP69K
- Power to lock or power to release variants
- Three actuation directions
- Optional emergency release
- Variants with two illuminable pushbuttons

Your benefits

- Highest level of safety for door and locking monitoring with just one device
- High level of machine availability due to a rugged metal locking head and high locking force
- High coding level of the actuator fulfills the requirements of EN ISO 14119 on manipulation protection without additional measures
- Easy mounting thanks to three actuation directions
- The escape release enables use of the locking device in applications in which the hazardous area is not completely visible
- Illuminable pushbuttons make triggering of control signals directly on the device possible
- Additional application diagnostic outputs simplify diagnostics

Fields of application

- Hazardous areas with fully body access
- Hazardous areas with partial body access
- Protection of persons in the event of the machine making dangerous overrun movements
- Applications requiring a high level of manipulation protection
- Applications requiring a high locking force

Ordering information

Other models and accessories → www.sick.com/TR110_Lock

Locking principle	Connection type Detail	Safe series connections	Escape release	Pushbuttons	Type	Part no.	
Power to lock	Plug connector, M12, 8-pin and plug connector, M12, 5-pin	None, only individual wiring (with diagnostics)	-	✓	TR110-SLU2BB0	6082954	
		With T-connector (without diagnostics)	-	-	TR110-SLUCAB0	6082951	
	Plug connector, M12, 8-pin	None, only individual wiring (with diagnostics)	-	-	TR110-SLUSAB0	6082945	
		With Flexi Loop (with diagnostics)	-	-	TR110-SLUFL00	6044633	
					TR110-SLUFLB0	6082948	
Power to release	Plug connector, M12, 8-pin and plug connector, M12, 5-pin	None, only individual wiring (with diagnostics)	✓	✓	TR110-SRU2BB1	6082955	
			-	✓	TR110-SRU2BB0	6082953	
		With T-connector (without diagnostics)	✓	-	TR110-SRUCAB1	6082952	
			-	-	TR110-SRUCAB0	6082950	
		Plug connector, M12, 8-pin	None, only individual wiring (with diagnostics)	✓	-	TR110-SRUSAB1	6082946
				-	-	TR110-SRUSA00	6033743
					TR110-SRUSAB0	6082944	
	With Flexi Loop (with diagnostics)		✓	-	TR110-SRUFL01	6044634	
					TR110-SRUFLB1	6082949	
			-	-	TR110-SRUFLB0	6082947	

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