

TLS-Z GD2 Safety Guard Locking Switches

TLS-GD2 family of Guard Locking Switches expands to support performance level “e” (PLe)



Features and Benefits

- **Built-in uniquely coded RFID door sensor** with inductive door position sensing will detect if actuator key breaks or becomes separated from its door mounted position. The door sensor works with a door target that is mounted with the included fully flexible actuator.
- **Identical profile** to standard TLS-GD2. This means the TLS-Z GD2 can be retrofitted in place of existing TLS-GD2 thus making it an easy, cost-effective solution with an upgrade to PLe – the highest performance level.
- **Solid-state contacts** – 2 safety PNP outputs and 1 auxiliary PNP output are substituted for traditional electromechanical contacts. These solid-state contacts can be connected in series with other devices such as Light Curtains, E-stops and SensaGuard switches.
- **TÜV certified** to Performance Level “e” to EN ISO 13849-1.
- **Available** in power-to-release or power-to-lock models.
- **Easy wiring** with M12 8-Pin Quick Disconnect.
- **Choice of auxiliary functionality** – Either lock status (locked/unlocked) or door position status (door open/closed).



The Allen-Bradley® Guardmaster® TLS-ZR GD2 and TLS-ZL GD2 Guard Locking Switches from Rockwell Automation are two new additions to the existing TLS GD2 family. The TLS-ZR GD2 is a power-to-release and the TLS-ZL GD2 is a power-to-lock unit. In mechanical configuration these new switches are identical to the existing TLS-GD2 family with the exception of an additional RFID door target which is mounted close coupled with the supplied fully-flexible actuator.

The RFID door target is uniquely coded and provides the internal microprocessor with additional door position information. Therefore, in the event of a broken or missing actuator key the microprocessor will shut down the OSSD safety outputs. This extra functionality provides performance level “e” to EN/ISO 13849-1.

These switches have built-in microprocessor technology and have two channel OSSD solid-state outputs. Locking/unlocking is achieved using a logic level signal input.

The TLS-Z GD2 has an ingress protection rating of IP69K making them suitable for harsh washdown applications as found in the food and beverage, pharmaceutical, solar and semiconductor industries.

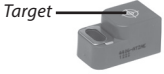





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Product Selection

Description	Cat. No.
TLS-ZR GD2 guard locking switch OSSD non-contact power-to-unlock, QD 24V, auxiliary lock status	440G-TZS21UPRH
TLS-ZL GD2 guard locking switch OSSD non-contact power-to-lock, QD 24V, auxiliary lock status	440G-TZS21UPLH
TLS-ZR GD2 guard locking switch OSSD non-contact power-to-unlock, QD 24V, auxiliary door position status	440G-TZS21UTRH
TLS-ZL GD2 guard locking switch OSSD non-contact power-to-lock, QD 24V, auxiliary door position status	440G-TZS21UTLH

Note: Sensor and actuator is supplied with the switch.

Accessories

Description		Cat. No.
 Target	Spare RFID Door Target	440G-ATZA
	Fully flexible actuator	440G-A27143
	Cover for TLS-1 with external override key for series E and later	440G-A27371
	Cover for TLS-1 with override key attached for series E and later	440G-A27373
	Emergency override key	440G-A36026
	Flexible release—1 m (3.28 ft) cable	440G-A27356
	Flexible release—3 m (9.84 ft) cable	440G-A27357
	Dust cover	440K-A17183

Connection Systems

Description	Cat. No.
Cordset	889D-F8AB-*
Patchcord	889D-F8ABDM-*
Safety Wired T-Port	898D-438Y-D8
Safety Wired Shorting Plug	898D-418U-DM
4 Port M12, 8-pin Safety Distribution Box	898D-P84RT-M19
8 Port M12, 8-pin Safety Distribution Box	898D-P88RT-M19
M12, 8-pin Shorting Plug	898D-81RU-DM

* Replace symbol with 2 (2m), 5 (5m), or 10 (10m) for standard cable lengths.

* Replace symbol with 1 (1m), 2 (2m), 3 (3m), 5 (5m), or 10 (10m) for standard lengths.

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www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846