

TLS-Z GD2 Safety Guard Locking Switches

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

Features

- **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.



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.

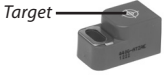





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Product Selection

| Description | Cat. No. |
|--|----------------|
| TLS-ZR GD2 guard locking switch OSSD non-contact power-to-unlock, QD 24V | 440G-TZS21UPRH |
| TLS-ZL GD2 guard locking switch OSSD non-contact power-to-lock, QD 24V | 440G-TZS21UPLH |

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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