Contact No. 311





TL Series

Changes to LED Specifications for TL Toggles with Bright Red (C) or Bright Amber (D)

Type of Change:

✓ Engineering✓ Part Number✓ Product✓ Appearance

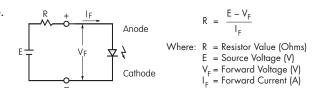
LED Specification
Revisions for TL Series

The TL Series Illuminated Toggles will have changes to the LED specifications for Bright Red (code C) and Bright Amber (code D) LEDs. The changes will effect all of the switches, including both actuators lengths, and standard and custom devices. The specification revisions are outlined below, followed by effected standard part numbers.

BRIGHT LED COLOR CODES & SPECIFICATIONS Before Change After Change Electrical LED Factory Assembled 5C 5C specifications are Not Available Separately Color Red Amber Red Amber determined at a Maximum Forward Current 30mA 30_mA 30mA 30mA basic temperature of 25°C. Typical Forward Current 20mA 20mA 20mA 20mA ľ Forward Voltage 2.0V 2.1V 2.05V 2.05V ٧ Lamp circuit is 4V 4V 10V 10V independent of Maximum Reverse Voltage V_{RM} switch operation. Current Reduction Rate Above 25°C ΔI_{c} 0.32mA/°C 0.32mA/°C 0.40mA/°C 0.40mA/°C -10°C ~ +55°C Ambient Temperature Range -10°C ~ +55°C

Notes

- The LED circuit is isolated and requires an external power source.
- If the source voltage exceeds the rated voltage, a ballast resistor is required. The resistor value can be calculated by using the formula shown here.
- There are no changes to any other specifications or external dimensions.
- Contact the factory if further details are needed.



TL Toggles Standard Part Numbers	
.689 (17.5mm) Toggle	.433 (11.0mm) Toggle
TL22DCAW015C	TL22SCAG015C
TL22DDAW015D	TL22SDAG015D

Effective Date

Changes to TL Illuminated Toggles with bright Red or Amber LEDs will be effective December 2017.

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