

TR218 Technical Datasheet

Effective August 28, 2016

Starfield lighting Automation



Made in USA CA Title 24

OVERVIEW

Rugged, spec-grade, controller designed for intuitive operation, easy installation, and optimal energy efficiency.

The TR218 is DALI compliant, and programmable for a variety of button operations including on/off, dimming, partial-on, and scenes.

Use this versatile controller to create full-function, multi-station lighting control for small offices to full size assembly halls.



TR218E with optional scene enunciation lights



TR218 - With Decora cover plate. (Cover plate not included)

HIGHLIGHTS

Room Aware™ Starfield's patented technology automatically coordinates with other controllers, sensors, and AV systems to keep indicator lights and button functions synchronized.

Self-Coordinating Peer to peer logic allow multi-station installations to be created without the cost, hassle, and limitations of a central controller.

No Hassel Power The TR218 is powered by the DALI bus so no need for external power packs.

Smart Indicator Night and zone status light with Room Aware™ coordination.

Programmable Button Functions DALI group settings and button functions may be configured locally or remotely using standard or custom script libraries.

Partial-On Turning lights on at 50% is one of the most efficient and user friendly energy measures available. Room Aware™ makes this possible by always turning lights on at mid-range regardless of how they were turned off. Quickly adjust to Max, Min, and then back to Mid with additional button taps.

User Feedback Thin form buttons and an internal click speaker provide both tactile and audial feedback.

Contrasting Button Colors Mix it up with different button colors for increased visibility and identification.

Replaceable Case and Button Caps Spruce up or repair a

control station with replaceable cases and button caps.

Scene Enunciator Lights These optical indicators use Room Aware™ to show scene status regardless of origin including other control stations and AV systems.

Retrofit Add controls to existing walls with a low voltage cut-in bracket that requires no backbox or conduit.

Laser Printed Labels Study clear labels used to identify button functions, scenes, and controlled areas.

Goof-proof Connections -

Two-wire, non-polarized, and free-topology connections for goof-proof, economical installation using standard building wire and connectors.

Rugged Terminals - Study wire-cage terminals for 16-22 ga copper wire.

Remote Button Activation Reach in over the network to actuate buttons for remote troubleshooting, control, and verification.

Mounts in standard NEMA switch box individually or ganged and finishes with NEMA standard decora switch plate.

Enunciation - Optional indicators show currently selected scene.



Two-wire, non-polarized connection with rugged wire-cage terminals for 16-22ga wire

TR218 SPECIFICATIONS

Electrical

- Class 2 device. **May not be installed in same electrical box with electrical power wires.**
- Powered by the DALI bus
- Switch Box Grounding - *Connect metal boxes to a hard earth ground to prevent DALI bus damage from building ground currents.*
- DALI bus load:
 - ◊ 7.0 mA includes night Light & 20% charging current allowance.

Physical

- NEMA Decora form factor
- Compatible with standard Decora and Lutron CW-1 screwless cover plates
- Indicator light - aqua green
- Terminals and Wire:
 - ◊ 5mm screw clamp, wire cage terminals
 - ◊ Copper conductors only
 - ◊ Tighten to 4.5 in-lbs torque
 - ◊ Wire size and type:
 - **Strip length** - 5/16"
 - **Wire Type** - Standard building wire in accordance with NEC requirements. Twisted pair and shielding is not required.
 - **Wire size Min** - 22 AWG solid or stranded
 - **Wire size Max** - 16 AWG stranded only
 - **Solid wire size Max** - 18 AWG
 - **Two wires of same size Max** - 18AWG solid or stranded
- Housing & Button Cap Material: 94v0 ABS/PC high impact alloy plastic.
- Housing Available Colors: NEMA WD1 White (standard) or Black
- Button Cap Colors: White (standard) or high-visibility Black

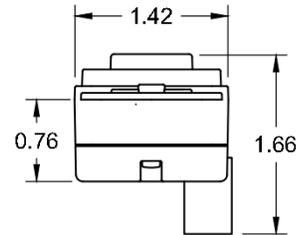
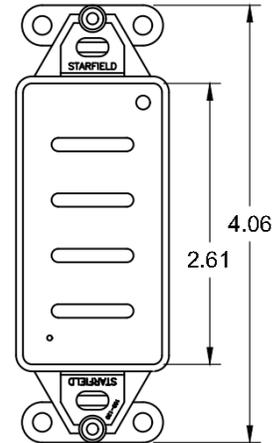
Environmental

- Operating Temperature Range: 0 to 55°C, 32 to 131°F
- Storage Temperature Range: -10 to 85°C, 14 to 185°F
- Relative Humidity: <90% non-condensing

Communication & Transmission Protocol

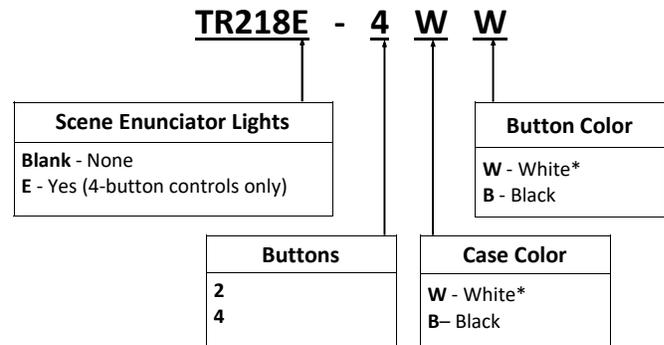
- DALI - IEC standard 60929 Ed. 3/CDV, Annex E.4
- XDCCP - Starfield Extended DALI Control Protocol

Warranty: 5-year limited.



DIMENSIONS

TR218 ORDER NUMBER



* Standard