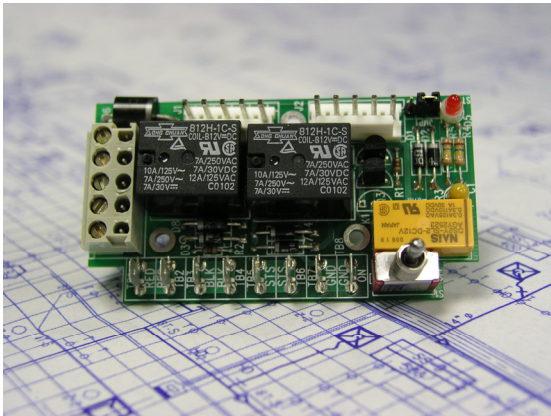


# Field Commander™

## Universal Lighting Controller

### Overview

The Universal Lighting Controller (ULC) controls up to 12 RR7/RR9 lighting relays per board. It can be controlled by local low voltage lighting switches or directly from a Universal Unitary Controller (UUC). The full range of local low voltage control wiring wall switches, pilot lights, and other standard components is available. Local lighting can easily be controlled by schedules, occupancy sensors or HVAC overrides. HVAC overrides can also be controlled by local low voltage lighting wall switches. This provides a cost effective integration of HVAC and lighting control at the local room control level.

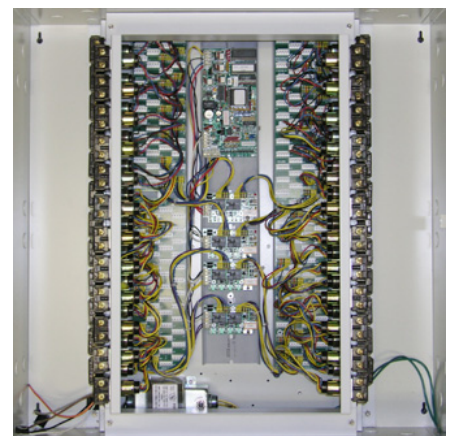


The Universal Lighting Controller allows a UUC to be integrated with GE RR7 and RR9 type relays and low voltage lighting control wiring. Using a single digital input and output, the Lighting Controller is defined in the UUC as a single pulse output point with status feedback. It is powered from the same 24vac supply used for the UUC. It has connections for two RR7 or RR9 relays (or groups of relays), which are driven together as one lighting zone. If RR7 relays are used, status feedback is provided on the interface board to simulate RR9 operation. The Lighting Controller also provides spade lug connections and standard wiring color codes for external low voltage lighting wiring to wall switches or pilot lights.

### Application

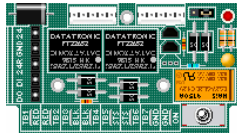
The Universal Lighting Controller can be track mounted with the UUC or mounted in an external box. In the track mount configuration, the board is placed in the same track as the UUC. Digital output, digital input (or universal input) and 24vac power are wired to the board from the UUC. The RR7 or RR9 relays and low voltage wiring are wired externally. A lighting controller box is available to mount a UUC and up to 12 relays in one to four control zones. Larger boxes are available to mount up to 24 or 48 relays in up to 8 zones.

For local lighting control, the board can be mounted in a standard 4 x 4 utility box. In this configuration, a mounting panel is placed between two stacked utility boxes creating high voltage and low voltage sections of the box. The mounting panel has locations for one or two RR7/RR9 relays and the interface board. Low voltage wiring from the local unitary controller and external low voltage switch wiring are terminated in the low voltage section. The high voltage section handles the actual switching of the lighting circuit loads. This utility box mounting allows a low cost means of integrating local lighting control to the UUC controlling the local zone.



**Universal Lighting Controller**

**016 - 4094**



Dimensions: 3 1/4" x 1 3/4" x 1 1/2"  
 Power Requirements: 24vac  
 Interface: RS-485 ULAN  
 Mounting: Snaptrack  
 Zones: 1

**Utility Box Mounting Plate**

**016 - 6510**



Dimensions: 4" x 4" x 4"  
 Power Requirements: 24vac, 1A  
 Interface: RS-485 ULAN  
 Mounting: Utility box  
 Zones: 1

**12 Relay Mounting Panel**

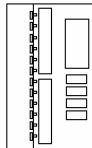
**016 - 6511**



Dimensions: 15" x 15" x 5"  
 Power Requirements: 120/240/277/480vac  
 Interface: RS-485 ULAN  
 Mounting: Wall-mounted  
 Zones: 1-4

**24 Relay Mounting Panel**

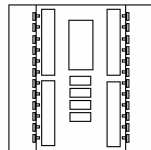
**016 - 6512-X**



Dimensions: 24" x 24" x 5"  
 Power Requirements: 120/240/277/480vac  
 Interface: RS-485 ULAN  
 Mounting: Wall-mounted  
 Zones: Up to 4 with 016-6512-4  
 Up to 8 with 016-6512-8

**48 Relay Mounting Panel**

**016 - 6513-X**



Dimensions: 24" x 24" x 5"  
 Power Requirements: 120/240/277/480vac  
 Interface: RS-485 ULAN  
 Mounting: Wall-mounted  
 Zones: Up to 4 with 016-6512-4  
 Up to 8 with 016-6512-8

- SCALEABLE FOR SMALL OR LARGE LIGHTING CONTROL APPLICATIONS
- COST-EFFECTIVE
- COMPATIBLE WITH GE RR7 AND RR9 RELAYS
- EASY TO INTEGRATE WITH HVAC AND LIGHTING CONTROLS

**About H I Solutions**

Since 1974 H I Solutions has provided innovative and cost-effective solutions for building management needs with computer-based automation systems for industrial, commercial, office, retail, educational, and healthcare facilities. Our distribution channels include a network of Independent Distributors, OEM, and National Accounts. Headquartered outside Atlanta, Georgia, H I Solutions is committed to offering quality engineering and performance, low overall cost, and unparalleled customer service.

