

### **LCU-1**

The LCU-1 is a self-contained device for controlling facility lighting. The unit can control up to eight lighting zones, and supports up to eight switches that enable occupants to override system control of the lighting. The LCU-1 also supports a photosensor for control of exterior lighting.

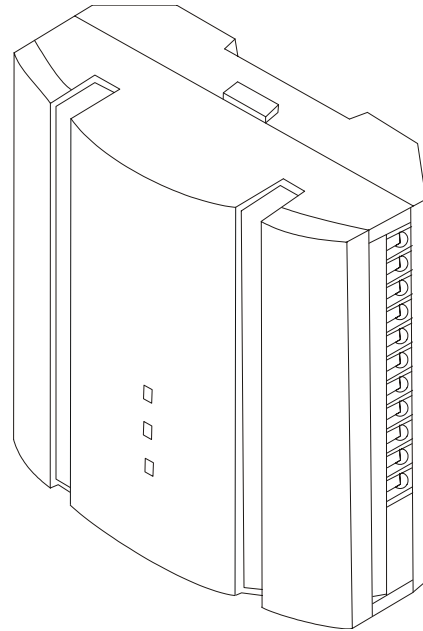
### **Overview**

The LCU-1 controls each lighting circuit through digital outputs in the form of triacs. Digital inputs from dry contact switches can override automatic control of lighting zones.

The LCU-1 provides a digital input for photosensor input.

### **Features**

- Configurable lighting zones
- On/Off control of lighting circuit contactors
- Controls up to 24 individual 20 Amp circuits through 8 contactors.
- Multiple units can be networked together
- Scheduled on and off times
- LONWORKS interface to building automation systems
- Occupancy override switches for individual zones
- Automatic configuration through the LCI
- Photosensor operation (one per system)



Innovex Technologies  
511 Braddock Avenue  
Turtle Creek, PA 15145  
[www.innovextechnologies.com](http://www.innovextechnologies.com)

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# Specifications

## Electrical

### Inputs

- Cabling: twisted shielded pair, 18 AWG recommended—500 feet max. (152 meters)

### Photosensor

- Dry Contact

### Override switches

- Dry Contact
- Normally Open

### Outputs

#### Lighting Contactors

- 24 Volts AC Triac
- 1 A rms

### FTT-10A Network

- Speed: 78 KBPS
- Cabling: Maximum node-to-node distance: 1312 feet (400 meters)
- Maximum total distance: 1640 feet (500 meters)

**Table 1: Network Wire Specifications**

Cable Type	Pairs	Details	Connect Air Catalog No.
Level 4 22AWG (0.65mm)	1	Unshielded, Plenum, U.L. Type CMP	W221P-2001
Level 4 22AWG (0.65mm)	1	Unshielded, Non-Plenum, U.L. Type CM	W221P-1002

For detailed specifications, refer to the FTT-10A Free-Topology Transceiver User's Guide published by Echelon Corporation. For information on ordering Connect Air items, contact Connect Air International; 4240 B Street; Auburn, WA 98001 <[www.connect-air.com](http://www.connect-air.com)>.

## Power

### Power Requirements

- 24 VAC (requires an external supply)

### Power Consumption

- With no external loads: 15 VA

## Mechanical

### Housing

- Dimensions: 4-3/8" high, 4-5/16" wide, 2" deep (111 mm high, 110 mm wide, 51 mm deep)

- ABS Polycarbonate

### Electronics

- Processor: 3150 Neuron 10 MHz
- Flash: 48 Kilobytes
- SRAM: 8 Kilobytes
- Termination: 0.2" (5.0 mm) Pluggable Terminal Blocks, 14-22 AWG

### Environmental

- Temperature: 32 to 122 °F (0 to 50 °C)
- Humidity: 0 to 95%, non-condensing

### Agency Listings

- UL916

### Agency Compliances

- FCC Part 15 Class A
- CE