Control Unit

The Enlighted Control Unit interfaces with the Enlighted sensor units (Smart Sensor, Ruggedized Sensor, or Compact Sensor) and connects to a ballast or LED driver to control light behavior, or receptacle relays to provide on/off controls. The Control Unit also contains a power metering chip that enables the Enlighted control network to measure power in real time as well as energy consumption over time.

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**OVERVIEW**

The Enlighted Control Unit is typically wired to the fixture's LED driver or dimming ballast to control light levels with high reliability and security—defaulting to full-output in any failure mode. It also connects to the Enlighted sensor units which contain microprocessors and sensor arrays that integrate occupancy, daylight, and temperature sensing. Customizable software profiles that drive each sensor unit enable easy definition of parameters to balance energy efficiency and occupant comfort goals. The sensor unit continuously takes occupancy, vacancy and light readings, interprets this data and instructs the Enlighted Control Unit in how to adjust illumination levels accordingly.

**FEATURES**

Real-Time Measurement and Verification of Energy Savings: Measures baseline wattage and energy consumption per fixture

Simple and Low-Cost Installation: The Control Unit is designed to fit within fixture cavity to speed installation and is factory-installable into fixture for streamlined project installation

Flexible Configuration: Allows control of many small low-wattage fixtures with single unit (output up to 4.5A)

Latch Relay to Reduce Standby Power: Ensures fixture defaults to a power-on mode in the case of failure. Reduces standby power consumption of each unit to 500mW, compared with traditional relays

Fixture Outage Reports: Harvests performance data via embedded power meter chip. Enlighted control network generates fixture outage reports to reduce maintenance costs and increase occupant safety and comfort

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**ENLIGHTED SPECIFICATION SUBMITTAL**

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Control Unit

MOUNTING
The Control Unit is UL Listed to be mounted inside fixtures and NEMA rated enclosures. Sheet metal screws are typically used to mount the Control Unit in these environments.

TYPICAL LINE DIAGRAM

UN-SHUNTED LAMP HOLDERS REQUIRED

Q-10volt

0-10V BALLAST/DRIVER

(3) 18" 600 VAC, 18 AWG solid

Max Output: 4.5A maximum continuous
3.5A @ 120V = 540 Watts
3.5A @ 277V = 1246 Watts

Dimmer Control Output: 0–10 VDC

Dimmer Control Input: Push in style
18–24 AWG

Power Output: Push in style
12–18 AWG

Input Voltage: 120/277 VAC
Input Frequency: 50/60 Hz

Ordering Information
CU-3E-1R Enlighted Control Unit

Compliance
Europe
United States
Canada

Warranty: 5 years
Refer to www.enlightedinc.com/limited-warranty-terms for complete terms and conditions