Fixture Mount Control Unit

enlighted™
A Siemens Company

The Enlighted Fixture Mount Control Unit interfaces with Enlighted sensors and a ballast or LED driver to intelligently control light behavior. 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.

OVERVIEW

The Enlighted Fixture Mount 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 support both energy efficiency and occupant comfort goals. The sensor unit continuously takes occupancy, vacancy and light readings; it also interprets this data and instructs the Enlighted Control Unit to adjust illumination levels accordingly.

Fixture Mount Control Unit

L	6.3"	160 mm (with tab)
L	4.8"	124 mm (without tab)
W	1.18"	30 mm
H	0.98"	25 mm
Weight	2.3 oz	65 grams

FEATURES AND BENEFITS

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

Simple and Low-Cost Installation: Securely fits within a light fixture cavity for quick installation at the factory or in the field, enabling streamlined project installation.

Flexible Configuration: Allows control of multiple low-wattage fixtures with a single unit. Maximum output current is 5.0A, subject to inrush current peak maximum.

Compatibility with Control Unit (CU-3E): With compatible mechanical footprint, the Fixture Mount Control Unit provides backward-compatibility with the CU-3E Control Unit.

Latching Relay to Reduce Standby Power: Ensures the fixture defaults to a power-on mode in the case of failure and reduces standby power consumption of each unit to less than 1W.

Fixture Outage Reports: Captures performance data via an embedded power metering chip. The Enlighted control network generates fixture outage reports to reduce maintenance costs and increase occupant safety and comfort.
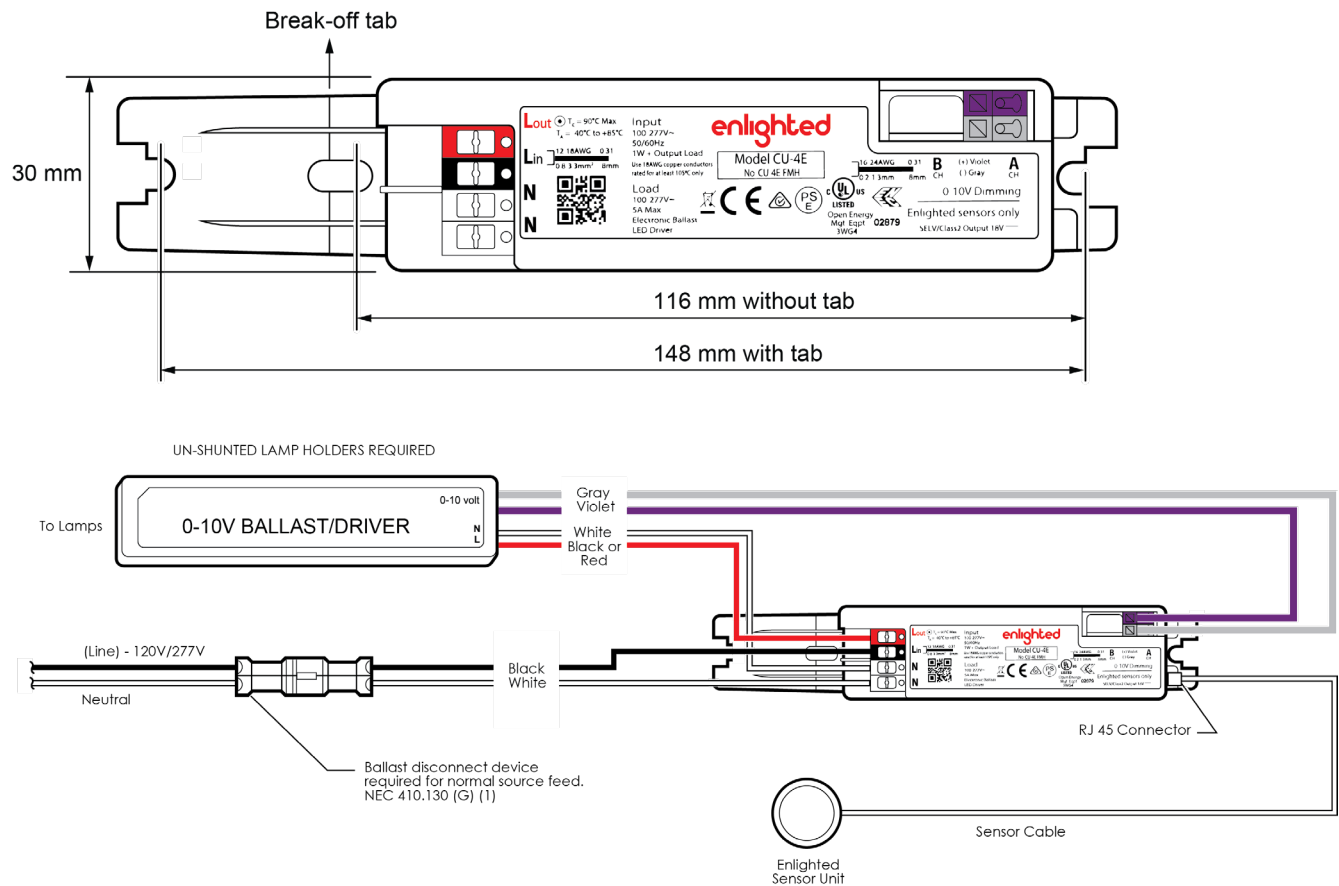
ENLIGHTED SPECIFICATION SUBMITTAL

Job Name:

Job Number:

Product Codes:
- ☐ CU-4E-FMH
- ☐ CBL-5E-CU4-30N
- ☐ CBL-5E-CU4-7F
- ☐
- ☐
- ☐

Fixture Mount Control Unit

enlighted™
A Siemens Company

MOUNTING

The Fixture Mount Control Unit (CU-4E-FMH) is designed to be mounted inside fixtures and NEMA rated enclosures. Sheet metal screws are typically used to mount the Control Unit in these environments. The dimensions for screw hole mounting are shown below. The full-length CU-4E-FMH can be mounted in place of the CU-3E, or the break-off tab can be removed to create a smaller form factor for a reduced footprint.

Break-off tab

30 mm

116 mm without tab

148 mm with tab

UN-SHUNTED LAMP HOLDERS REQUIRED

To Lamps

0-10V BALLAST/DRIVER

0-10 volt

Gray
Violet

White
Black or
Red

(Line) - 120V/277V

Neutral

Black
White

Ballast disconnect device required for normal source feed. NEC 410.130 (G) (1)

RJ 45 Connector

Sensor Cable

Enlighted Sensor Unit

TECHNICAL SPECIFICATIONS

Operating: -40° to 185° F
-40° to 85° C ambient

Enclosure: Polycarbonate

Input Voltage: 100 to 277 VAC

Input Frequency: 50/60 Hz

Power Wires: Push-in style
12–18 AWG solid/stranded

Dimmer Control Output: Push-in style
16–24 AWG solid/stranded

Power Output Specifications:

5.0 A maximum continuous:
5.0 A @ 120 V = 600 Watts
5.0 A @ 277 V = 1385 Watts

Load Inrush current not to exceed
NEMA-410 limits:
192 A peak @ 120 V
320 A peak @ 277 V

ORDERING INFORMATION

CU-4E-FMH	Fixture Mount Control Unit
CBL-5E-CU4-30N	30 inch Sensor Cable for CU-4 and IoT Ready™ drivers
CBL-5E-CU4-7F	7 foot Sensor Cable for CU-4 and IoT Ready™ drivers

Consult your Enlighted Sales Representative for a complete list of compatible cables

ENVIRONMENT

For dry conditions only

COMPLIANCE

United States	FC UL LISTED
Canada	c UL LISTED
Europe	CE

WARRANTY: 5 years
View www.enlightedinc.com/limited-warranty-terms for complete terms and conditions