

Fixture Mount Control Unit



CU-4E-FMH

SPECIFICATION

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. 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: Minimizes the 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

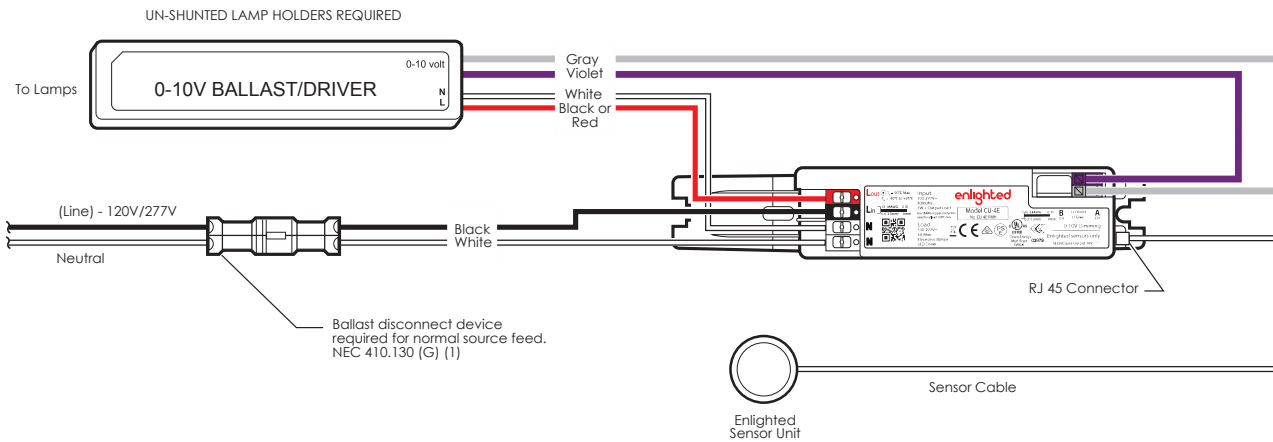
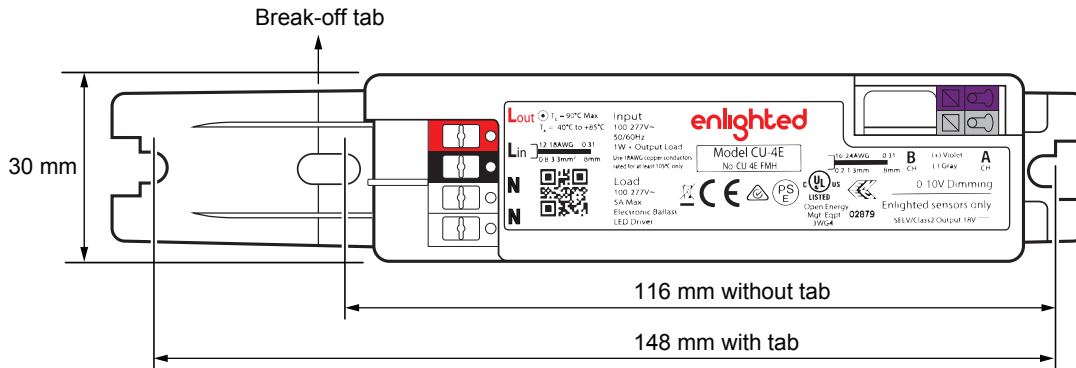
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MOUNTING

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.



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

Input Power: 1W + Load Power

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

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

Power Output Specifications

Switch (Controlled) output:

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:

320 A peak per NEMA-410

Un-switched (not-controlled) output:
15.0A maximum Continuous:

15.0A@120V=1800 Watts

15.0A@277V=4155 Watts

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 From Subject Received
Size Categories

Viera, Angela (SI RSS ENLD MK PM) Re: Sur-
face Sensor Spec Sheet 1:02 AM 144 KB

COMPLIANCE

United States

Canada

Europe

WARRANTY: 5 years

View www.enlightedinc.com/limited-warranty-terms
for complete terms and conditions