

Nipple Mount Control Unit

NME/NMI



SPECIFICATION

The Enlighted Nipple Mount Control Unit is designed for field installation applications. It is available in two models, one for connecting to sensors external to the luminaire and the other for connecting to sensors that are mounted internal to the luminaire. The Control Unit interfaces with Enlighted sensors and a ballast or LED driver to intelligently control light behavior. The power metering chip within the Control Unit enables the Enlighted control network to measure power in real time as well as energy consumption over time.



OVERVIEW

The Enlighted Nipple 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 Nipple Mount Control Unit to adjust illumination levels accordingly.

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 mounts externally to a junction box or luminaire or can be mounted within a junction box using traditional wiring methods, enabling easy project installation.

Flexible Configuration: The Switched Output Port of CU-4E NME/NMI uses a relay; the sensor controls its output. It allows control of multiple low-wattage fixtures with a single unit. The maximum output current is 5.0A, subject to inrush current peak max. The Unswitched Output Port of CU-4E NME/NMI is not controlled by any relay. Its output is always on and must only be used to source AC power from the Control Unit (CU) to power any fixture or device that the sensor will not control. The maximum output current limit is 15A for the unswitched output port. The CU-4E NME/NMI reports power consumption data of both the Switched and Unswitched outputs combinedly.

Latching Relay to Reduce Standby Power: Minimizes the standby power consumption of each unit to less than 1W.

External Relay Control: Allows the use of high inrush luminaires while maintaining the ability for accurate energy metering.

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.

Nipple Mount Control Unit

L	3.75"	95 mm
W	2.4"	61 mm
H	1.1"	28 mm
Weight	5.9 oz	164 grams

Nipple Length

L	0.57"	14 mm
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Pigtail Wire Lengths

Class1	18"	457 mm
Class 2	24"	610 mm

ENLIGHTED SPECIFICATION SUBMITTAL

Job Name:

Job Number:

Product Codes:

CU-4E-NME

CU-4E-NMI

CBL-5E-CU4-30N

CBL-5E-CU4-7F

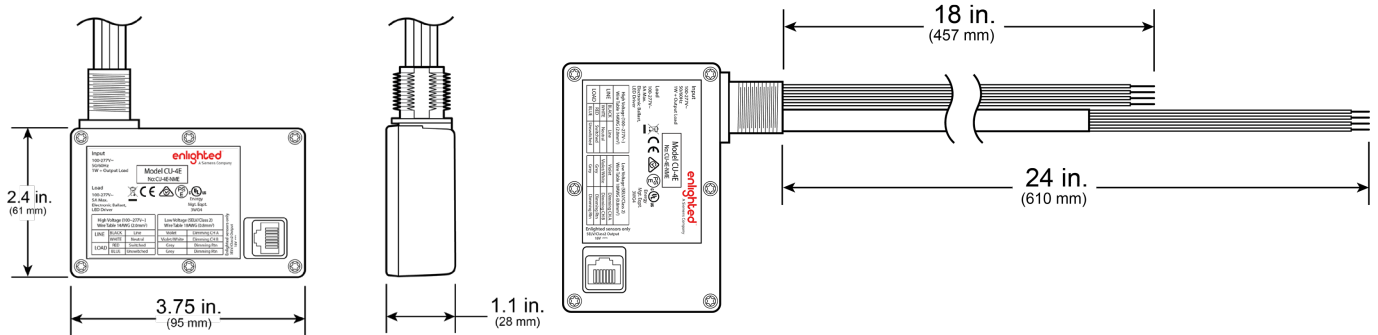
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MOUNTING

Control Unit Nipple Mount External (CU-4E-NME): The sensor is mounted outside of the luminaire enclosure. The sensor cable is connected to the control unit via an RJ-45 receptacle located on the side of the Control Unit housing, ensuring separation of circuits, and making it easy to connect to remote or ceiling mounted sensors.



Control Unit Nipple Mount Internal (CU-4E-NMI): The sensor is mounted inside of the luminaire enclosure. The sensor cable is permanently attached to the Control Unit and comes out of the nipple for easy connection to a sensor mounted within the luminaire enclosure. In addition, the Internal Sensor version is rated at IP65 for use with external luminaires or outdoor locations.

TECHNICAL SPECIFICATIONS

Operating: -30° to 158° F
-35° to 70° C ambient

Enclosure: Polycarbonate

Input Voltage: 100 to 277 VAC

Input Frequency: 50/60 Hz

Input Power: 1W + Load Power

Power Wires: Pigtail
14AWG & 18AWG Solid

Dimmer Control Output: Pigtail
18AWG Solid

Power Output Specifications

Switched (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:

15.0 A maximum continuous: 15.0 A @ 120 V = 1800 Watts
15.0 A @ 277 V = 4155 Watts

ORDERING INFORMATION

CU-4E-NME Nipple Mount CU – External Sensor

CU-4E-NMI Nipple Mount CU – Internal Sensor

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

CU-4E-NME: For Indoor Use Only.
Plenum Rated

CU-4E-NMI: For Indoor or Outdoor Use,
IP65/Rain Tight/Type4,
Plenum Rated

COMPLIANCE

United States 

Canada 

WARRANTY: 5-years

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