

CLM

Connected Lighting Module



The **Connected Lighting Module (CLM)** is a wireless device designed to easily add individual luminaire control to spaces, delivering the ultimate flexibility to building managers. The Encelium CLM design significantly reduces electrical contractor labor hours during on-site installation.

Date: _____

Quantity: _____

Company: _____

Project: _____

Works with

- Encelium X
- ▶ Wireless



Key Features & Benefits

- Seamlessly enable tunable white applications with luminaire integrated control using DALI Type 8 LED driver
- Future-proof your lighting controls with flexible zone modifications that can change building needs
- Customize lighting scenes for tailored experiences and tasks
- The dimming interface allows control of single or multiple luminaires in a single space
- Significantly reduce installation labor hours with luminaire integrated lighting controls
- Optimized form factor is intended for installation into a standard PG-7 (0.5 inch) trade-size knockout present on virtually every luminaire

Specifications

SENSING AND CONTROL

Control

- Wireless Communication

Wireless Range

- 30 m (100 ft) line of sight, 15.2 m (50 ft) through standard walls

Number of Control Outputs

- Each CLM is capable of handling 10 0-10V LED drivers or 4 DALI Drivers with Self-Powered DALI Link in parallel connection

Dimming Output

- Single 0-10V dimming output, capable of sinking 3 mA (this is equivalent to 10 typical dimming ballasts/drivers)
- DALI and DALI Type 8 for Tunable White

ELECTRICAL

Power Consumption

- 0.3 W

Input Voltage

- 12 VDC (0-10V with AUX connection ONLY)
- 18 to 24 VDC (DALI Driver with Self-Powered DALI Link)

Input Current

- Typically <40 mA

Radio Frequency

- 2.4 GHz

Connection Ports

- DALI/DEXAL +
- DALI/DEXAL -
- DIM +
- DIM -
- VDC +
- VDC -

ENVIRONMENTAL

Operating Temperature

- -40° to 60°C (-40° to 140°F)

Operating Humidity

- 0% to 95%, non-condensing

PHYSICAL

Dimensions (H x W x D)

- 48.5 x 21.4 x Ø 34 mm (1.9 x 0.84 x Ø 1.34 inches)

Weight

- 233 g (8.2 oz)

Housing Color

- White

Housing Material

- Nylon

Mounting Option

- Luminaire Mount

Mounting Hole Diameter

- PG-7 (0.5 inch) trade-size knockout

WARRANTY

- For warranty details, refer to the full warranty documentation at encelium.com

CERTIFICATIONS & SAFETY

Approbations

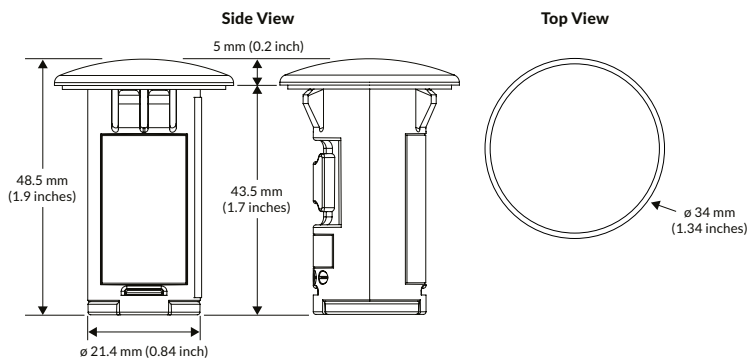
- UL916 (Energy Management Equipment)
- UL924 cUL US Listed (Emergency Lighting Equipment)
- UL2043 Plenum Rated
- CE
- UK CA
- FCC
- RoHS Compliant

Environmental Suitability

- IP54



Dimensions

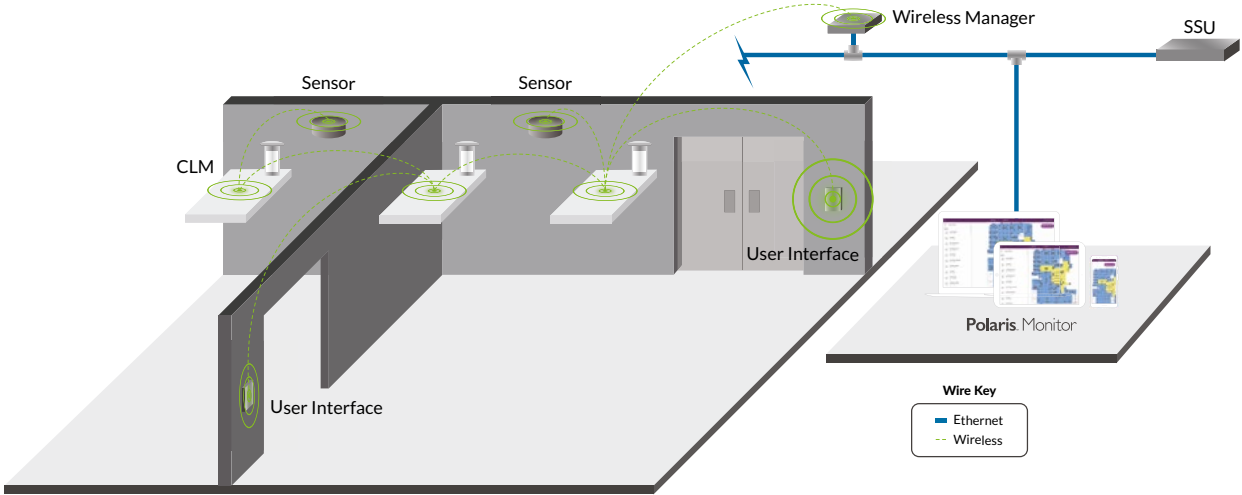


Ordering Information

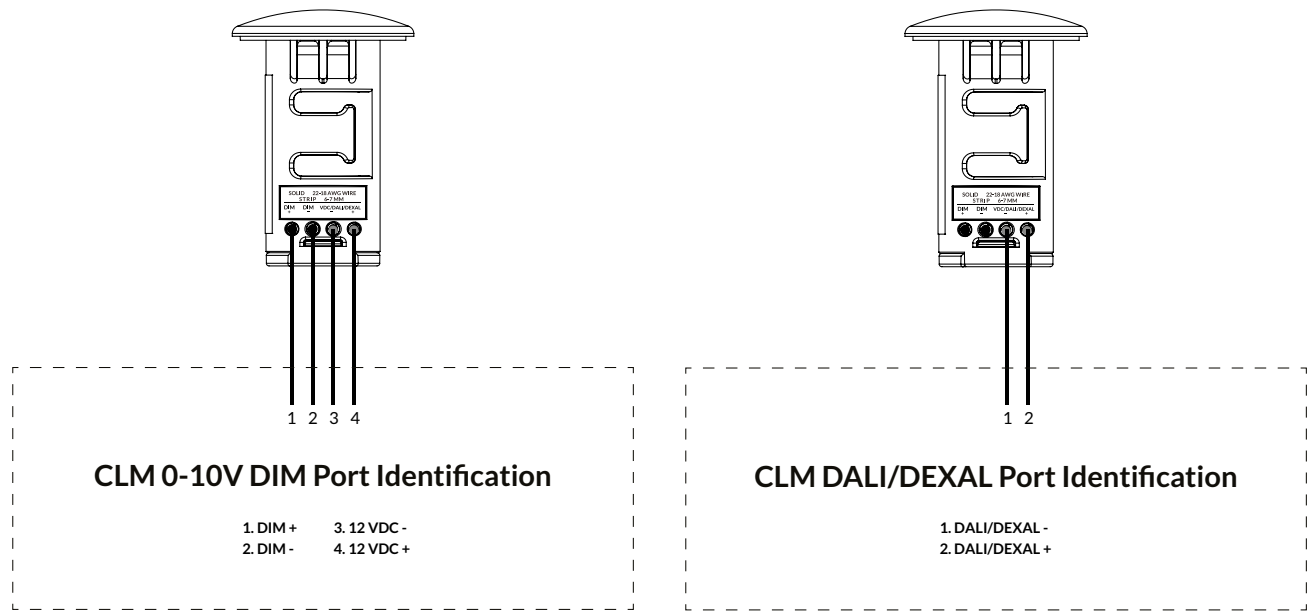
Ordering Code	Description	Approbations	Communication Network	Dimming Protocols
45678	CLM DIM	UL and CE	Wireless	0-10V, DALI/DEXAL, DALI Type 8

Wireless System Overview

This illustration shows how each component is easily integrated into the Encelium X Lighting Control System. The Connected Lighting Module (CLM) allows luminaires to be wirelessly controlled. The System Manager sends dedicated commands wirelessly to each CLM enabling individually controlled luminaires.



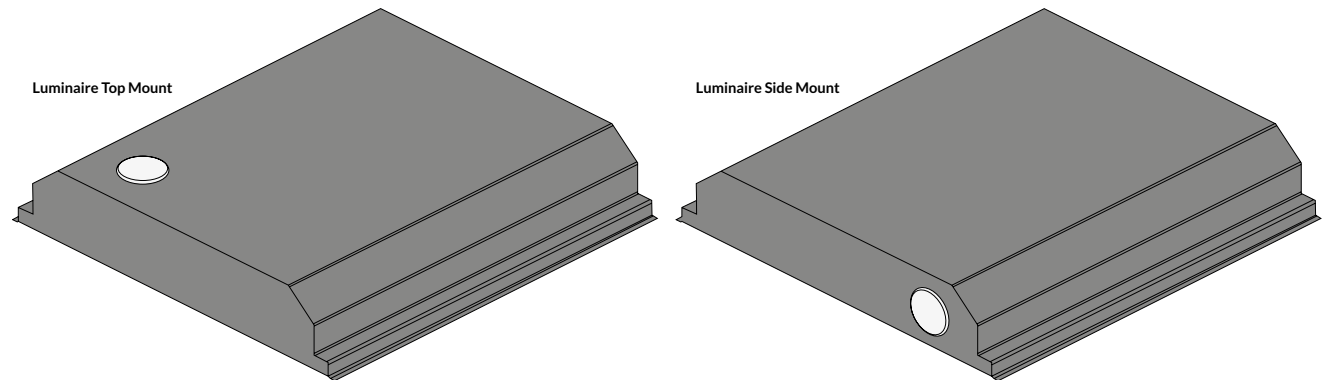
CLM Wiring Diagrams



NOTE: DEXAL is a DALI driver with self-powered DALI link. See Installation Instructions for additional wiring methods.

Mounting Option

Luminaire Mount



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