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:	
Droinet	

Works with

- Encelium X
 - ▶ Wireless



Key Features & Benefits

- Seamlessly enable tunable white applications with luminaire integrated control using DALI Type 8 LED driver
- 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 knock-out present on virtually every luminaire



Specifications

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)

Dimensions

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 knock-out

WARRANTY

 Standard warranty is in effect for a period of five (5) years from the date of shipment.¹

CERTIFICATIONS & SAFETY

Approbations

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

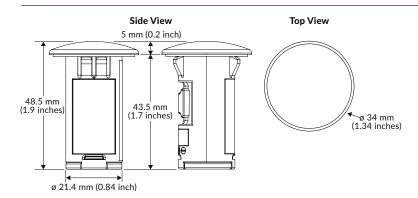
Environmental Suitability

■ IP54



Footnotes:

¹ This does not apply to: (1) damage caused by accident, mishandling, or dropping; (2) materials which have been subject to unauthorized repair; (3) materials not used in accordance with instructions; (4) ordinary wear and tear.

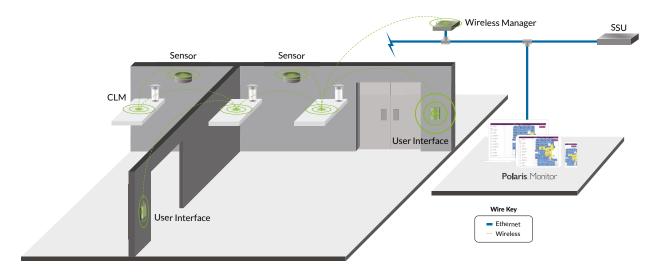


Ordering Information

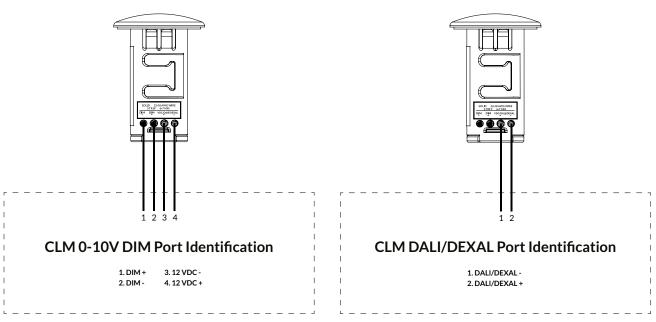
Catalog Number	Description	Approbations	Communication Network	Protocols
ZBHA-CLM-DIM	Zigbee Connected Lighting Module	UL and CE	Wireless	0-10V, DALI/DEXAL, DALI Type 8

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.

CLM Specification Sheet 3

Mounting Option

Luminaire Mount

