DALI-2 LS PD HB CM Sensor

High-Bay Ceiling Mount Sensor

Date: _____

Quantity: _____

Company: _____

Project: _____

Works with

- Encelium X
  - ▸ DALI-2 Wired

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Key Features & Benefits

- Designed for surface mounting

- IP54 housing and mounting height up to 14 m (46 ft) make this ideal for high-bay applications

- Easily adapts to ceiling integration with the use of optional Mounting Adapter Kit

- DALI-2 certification

The Encelium **DALI-2 LS PD HB CM Sensor** provides occupancy information using passive infrared (PIR).

The compact IP54 rated housing and a detection area optimized for installation heights up to 14 m (46 ft), make this sensor ideal for industrial and high-bay applications.

The DALI-2 LS PD HB CM Sensor is DALI-2 certified and communicates with the Encelium Wired Manger — DALI, a key component of the Encelium X Lighting Control System.

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DALI-2 LS PD HB CM Specifications

SENSING AND CONTROL

Sensing
- Passive Infrared (PIR)Sensor

Control
- DALI-2 Communication

ELECTRICAL

Input Voltage
- 16 VDC

Current
- 8 mA

Startup Time
- 600 ms maximum

DALI to Mains
- Galvanic isolation, uses wires suitable for mains voltage

ENVIRONMENTAL

Ambient Temperature
- -20° to 45°C (-4° to 113°F)

Case Temperature
- 45°C (113°F) maximum
- 110°C (230°F) maximum fault condition

Storage Temperature
- -25° to 45°C (-13° to 113°F)

Relative Humidity
- 5% to 85% non-condensing

PHYSICAL

Dimensions (H x D)
- 69 x Ø 105 mm (2.7 x Ø 4.1 inches)

Weight
- 130 g (4.6 oz)

Housing Color
- White

Housing Material
- Plastic/Metal

Mounting Options
- Surface-Mount
- Ceiling Integration (Optional Mounting Adapter Kit)

Mounting Height
- 4 to 14 m (13.1 to 46 ft)

Wire Diameter
- 1 to 2.5 mm^2 (25.4 to 63.5 inches^2), H05VV-F/H05RN-F

Expected Lifetime
- >50,000 h lifetime at t_a = 50°C (122°F)

WARRANTY
- For warranty details, refer to the full warranty documentation at encelium.com
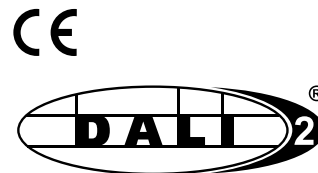
CERTIFICATIONS & SAFETY

Approbations
- CE
- DALI-2 Certified

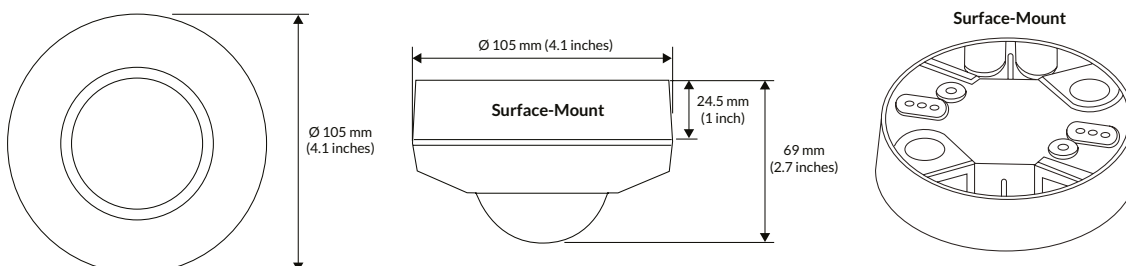**Complies with Electromagnetic Compatibility (EMC) Standards:**
- EN 55015
- EN 61347-1
- EN 61347-2-11
- EN 61547
- EN 62386-101
- EN 62386-103
- EN 62386-303
- EN IEC 63000

Environmental Suitability
- IP54

Dimensions

Ø 105 mm (4.1 inches)

Ø 105 mm (4.1 inches)

Surface-Mount

24.5 mm (1 inch)

69 mm (2.7 inches)

Surface-Mount

Mounting Adapter Kit Specifications

PHYSICAL
Dimensions (H x D)
- 43.5 x Ø 66 mm (1.7 x Ø 2.6 inches)

Housing Color
- White

Housing Material
- Plastic

Mounting Option
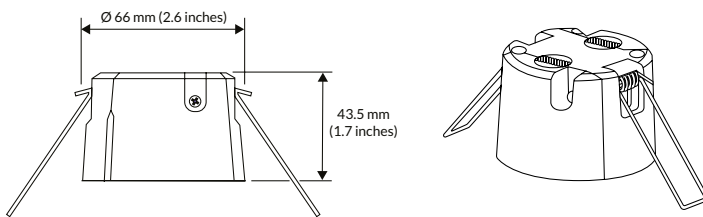- Ceiling Integration

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

CERTIFICATIONS & SAFETY
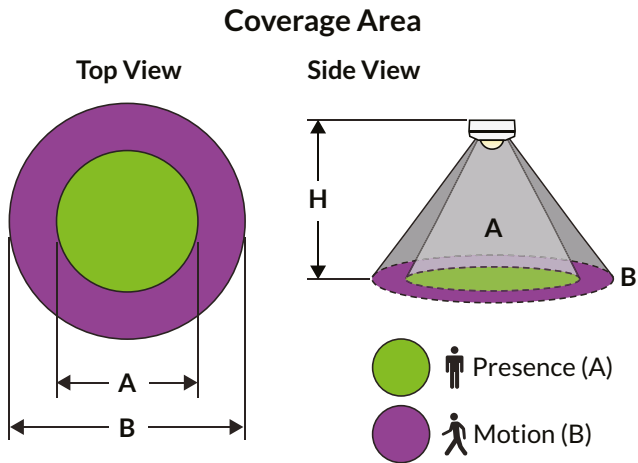**Environmental Suitability**
- IP20, Indoor Use

Dimensions

Ø 66 mm (2.6 inches)

43.5 mm (1.7 inches)

Ordering Information

Ordering Code	Description	Approbation	Communication Network
4052899630475	DALI-2 LS PD HB CM Sensor	CE	DALI-2
4062172161466	Mounting Adapter Kit*	—	—

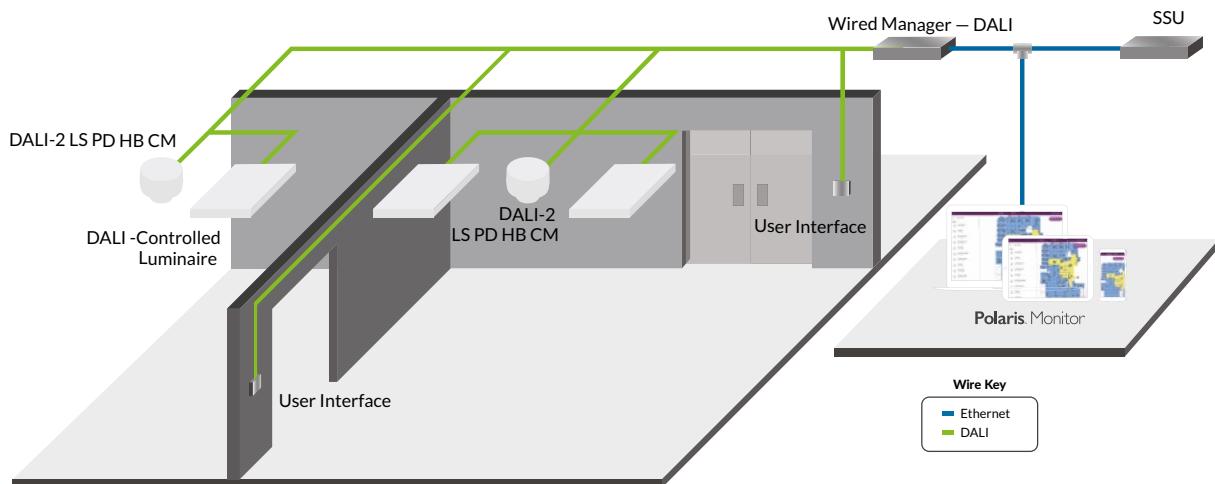* Mounting Adapter Kit sold separately.

Sensor Coverage

Coverage Area

Top View   **Side View**

- 🟢 🧍 Presence (A)
- 🟣 🚶 Motion (B)

Sensor Detection Range

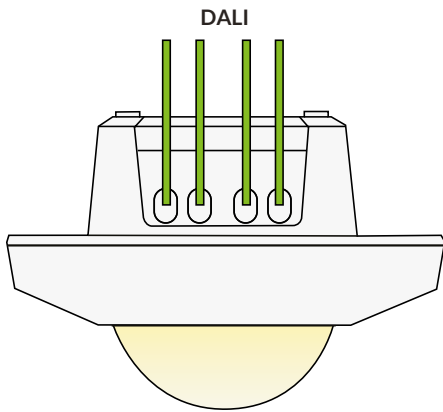| Detection Type	Mounting Height			
	4 m (13.1 ft)	**6 m (20 ft)**	**10 m (33 ft)**	**14 m (46 ft)**
Presence	4 m (13.1 ft)	5 m (x ft)	6 m (20 ft)	14 m (46 ft)
Motion	9 m (29.5 ft)	12 m (39.4 ft)	15 m (49.2 ft)	21 m (69 ft)

Wired System Overview

Encelium X enables you to control DALI devices. With any Encelium X system design, you get a reliable, lighting control system that can be installed quickly and easily.
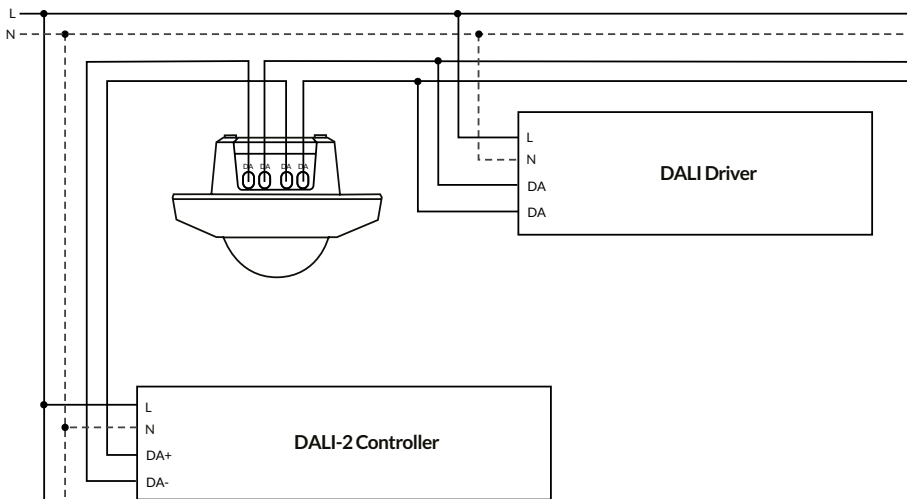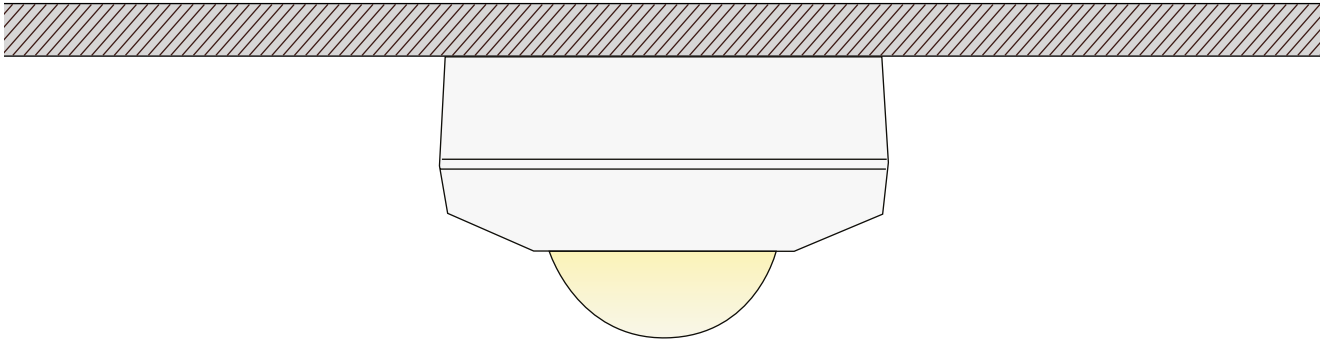
Wiring Diagrams

DALI-2 LS PD HB CM Wiring

DALI

DALI-2 LS PD HB CM Wiring Diagram

L
N

DALI Driver

L
N
DA
DA

DALI-2 Controller

L
N
DA+
DA-

Mounting Options

Surface-Mount

Ceiling Integration (Optional Mounting Adapter Kit)

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