L'i legrand

SENSILUM WIRELESS INTEGRATED SENSOR

EN-CLM-PIR-DD-ZB

Includes a Photo Infrared (PIR) and Photo Sensor

Controls up to (4) DALI or (10) 0-10V Drivers

Wireless Communication range up to 45.7 m (150 ft) line of sight

Luminaire Mount

DESCRIPTION

The SensiLUM wireless integrated sensor family enables real-time occupancy detection, daylighting harvesting, and individual or group control of luminaires. Fully compatible with the Wattstopper PLUS System, SensiLUM fits into an industry-standard PG-7 (0.5 inch) trade-size knockout in any luminaire.

SensiLUM sensors offer 0-10V dimming, and DALI control options.

When used with the Wattstopper PLUS System,the SensiLUM allows for a sensor-rich smart network that users can leverage as their technology infrastructure for entry into smart building and IoT applications.

Digital lighting solutions may qualify for commercial lighting rebates on new construction or retrofit projects.
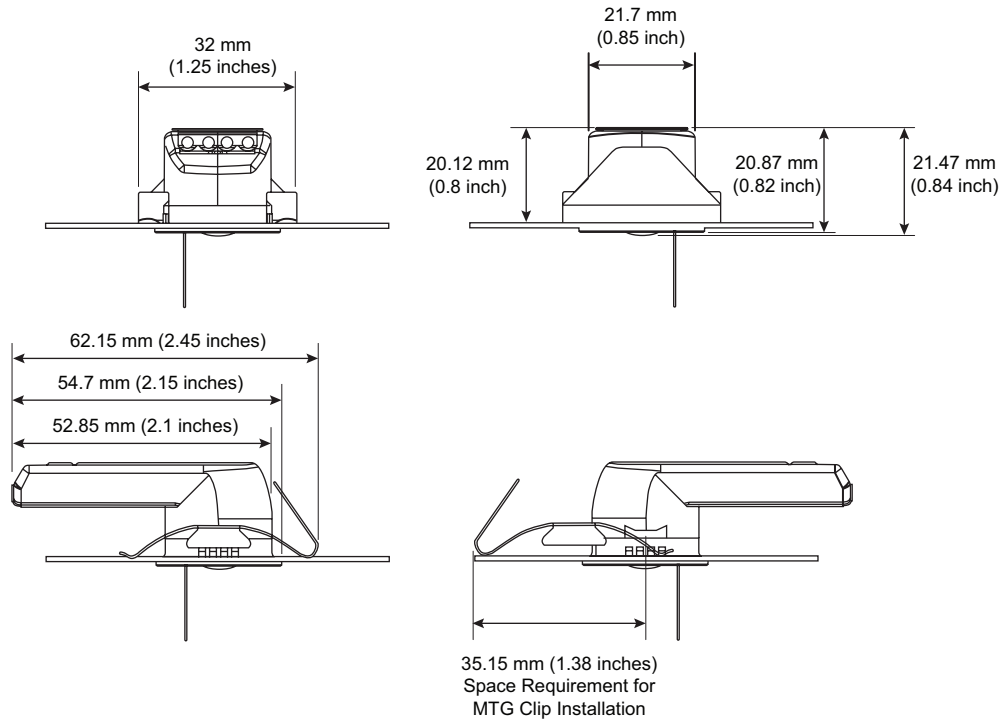
FEATURES

- Unique form factor enables easy integration in any architectural luminaire
- Enables occupancy detection and daylight harvesting
- Compatible with both 0-10V (with Dim-to-OFF) and DALI based LED drivers. The sensor auto-detects between drivers
- Seamlessly enable tunable white applications with luminaire integrated control for DALI Type 8 LED driver
- Adjustable dual-axis shutter allows end-user to fine-tune field of view
- UL924 Listed for Control of Emergency Lighting UL2043 Plenum Rated
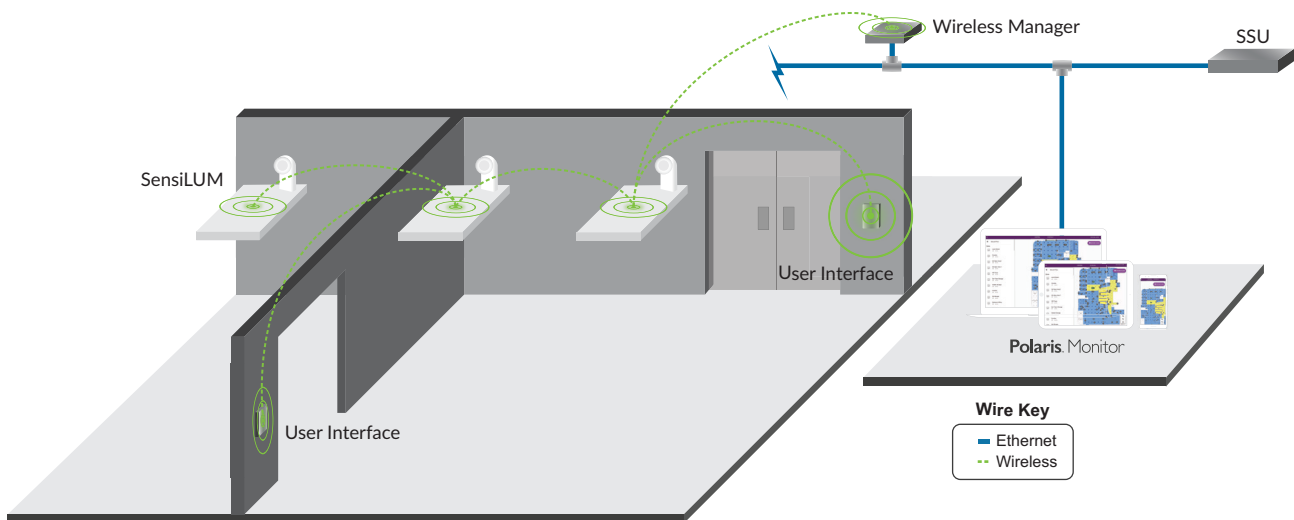
SPECIFICATIONS

- Voltage: 12-24 VDC (0-10V with AUX connection ONLY); 18-24 VDC (DALI Driver with Self-Powered DALI Link)
- Wireless Communication: 45.7 m (150 ft) line of sight
- Operating Temperature: 32° to 140°F (0° to 60°C)
- Relative Humidity: 0% to 95%, non-condensing
- Weight: 13 g (0.46 oz)
- Certifications
  – UL/cUL 2043 Class 2 Plenum Rated
  – FCC part 15 Class A
- Environmental Suitability: IP2
- 5 year warranty

PROJECT		LOCATION/ TYPE	

designed to be better.®

DIMENSIONS

32 mm
(1.25 inches)

21.7 mm
(0.85 inch)

20.12 mm
(0.8 inch)

20.87 mm
(0.82 inch)

21.47 mm
(0.84 inch)

62.15 mm (2.45 inches)

54.7 mm (2.15 inches)

52.85 mm (2.1 inches)

35.15 mm (1.38 inches)
Space Requirement for
MTG Clip Installation

SYSTEM OVERVIEW

Wireless Manager

SSU

SensiLUM

User Interface

User Interface

Polaris Monitor

Wire Key

- Ethernet
- Wireless

SENSOR COVERAGE

3 m (10 ft)

TOP VIEW

3 m (10 ft)
2.4 m (8 ft)
1.5 m (5 ft)
0
1.5 m (5 ft)
2.4 m (8 ft)
3 m (10 ft)

6.1 m (20 ft)

TOP VIEW

6.1 m (20 ft)
4.6 m (15 ft)
3 m (10 ft)
1.5 m (5 ft)
0
1.5 m (5 ft)
3 m (10 ft)
4.6 m (15 ft)
6.1 m (20 ft)

SIDE VIEW

2.4 m (8 ft)

3 m (10 ft)   2.4 m (8 ft)   1.5 m (5 ft)   0   1.5 m (5 ft)   2.4 m (8 ft)   3 m (10 ft)

SIDE VIEW

6.1 m (20 ft)

6.1 m (20 ft)   4.6 m (15 ft)   3 m (10 ft)   1.5 m (5 ft)   0   1.5 m (5 ft)   3 m (10 ft)   4.6 m (15 ft)   6.1 m (20 ft)
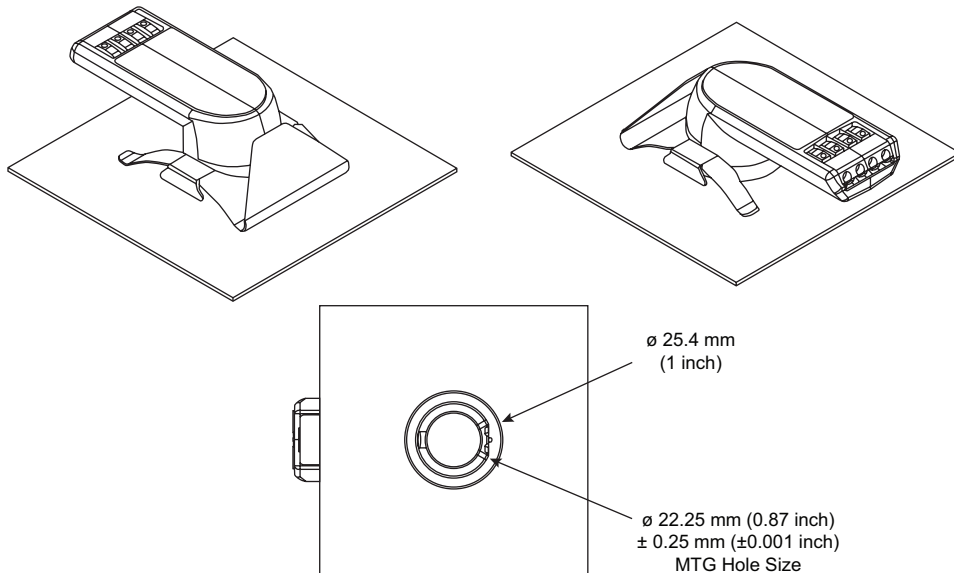
POWER SUPPLY COMPATIBILITY

Linear (010V) AUX Models Only	Compact (0-10V) AUX Models Only	OPTOTRONIC Driver Linear (DALI)
OTi20W, OTi30W, OTi48W, OTi50W, OTi85W	OTi25W, OTi40W, OTi55W	OTi30W, OTi50W, OTi85W

INSTALLATION DIAGRAMS

ø 25.4 mm (1 inch)

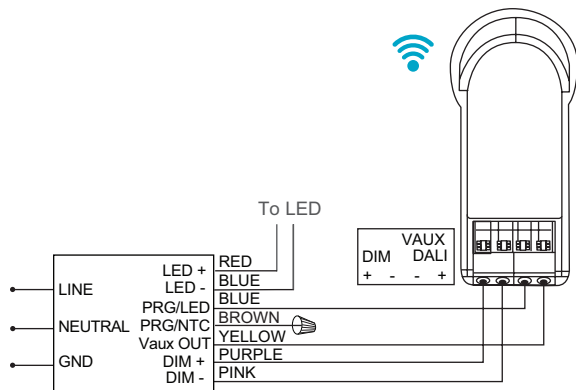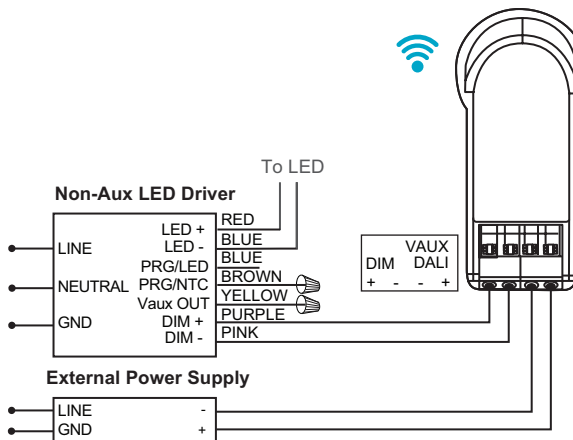ø 22.25 mm (0.87 inch) ± 0.25 mm (±0.001 inch) MTG Hole Size

WIRING

For additional information, including usage in applications with multiple drivers and OPTOTRONIC LED Power Supply configuration settings, see the SensiLUM installation instructions.

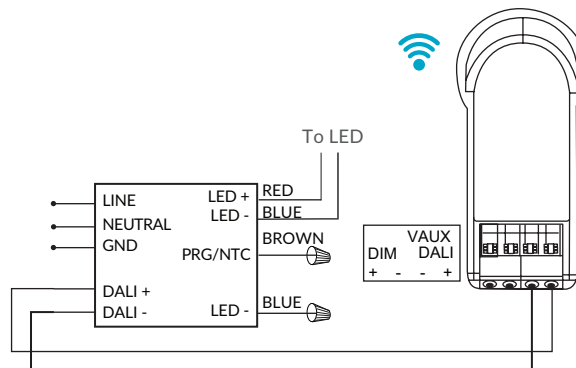IMPORTANT: The LED driver must possess Dim-to-Off capability, and it must be enabled when used with CLM DIM.
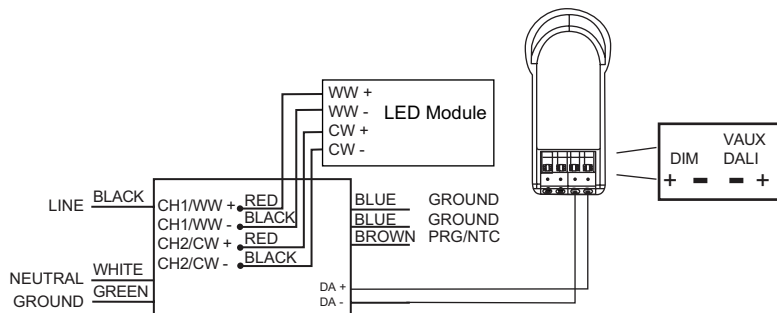
0-10V LED Driver with Auxiliary Power Output

To LED

LINE	LED +	RED
NEUTRAL	LED -	BLUE
	PRG/LED	BLUE
GND	PRG/NTC	BROWN
	Vaux OUT	YELLOW
	DIM +	PURPLE
	DIM -	PINK

VAUX
DIM   DALI
+ - - +

0-10V LED Driver with External Power Supply

To LED

Non-Aux LED Driver

LINE	LED +	RED
	LED -	BLUE
NEUTRAL	PRG/LED	BLUE
	PRG/NTC	BROWN
GND	Vaux OUT	YELLOW
	DIM +	PURPLE
	DIM -	PINK

VAUX
DIM   DALI
+ - - +

External Power Supply

| LINE | - |
| GND | + |

Single DALI Driver

To LED

LINE	LED +	RED
NEUTRAL	LED -	BLUE
GND		
	PRG/NTC	BROWN
DALI +		
DALI -	LED -	BLUE

VAUX
DIM   DALI
+ - - +

Single DALI Driver (Tunable White)

WW +
WW -   LED Module
CW +
CW -

LINE	BLACK	CH1/WW +	RED		BLUE	GROUND
		CH1/WW -	BLACK		BLUE	GROUND
		CH2/CW +	RED		BROWN	PRG/NTC
		CH2/CW -	BLACK			
NEUTRAL	WHITE					
GROUND	GREEN			DA +		
				DA -		

VAUX
DIM   DALI
+ - - +

ORDERING INFORMATION

Catalog #	Description	Communication Network
☐ EN-CLM-PIR-DD-ZB	SensiLUM Wireless Integrated Sensor	Wireless