DATA SHEET

TruBlu Mesh Compact DALI Book 20 Wireless Sensor-Controller

Overview

- Single Channel DALI Wireless Sensor-Controller
- Digital Passive Infrared (PIR) Sensor
- Zhaga Book 20 Compliant (Mount to 1/2" Knockout)
- Compatible with Bluetooth® SIG Mesh Systems
- Features High and Low-End Trim Adjustment, Zoning & Continuous Dimming
- DALI Zhaga D4i Certified
- Compact Design
- 360° Sensor Coverage Pattern
- Energy Monitoring and Scheduling with a TruBlu™ Gateway
- Conforms with DLC NLC5 Cybersecurity Standards

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Applications

The PSC-ZBD-I-11N-BLE-SR is a Single Channel DALI Zhaga Book 20 D4i Wireless Fixture Sensor-Controller. The device includes a Passive Infrared occupancy sensor and integral daylight sensor.

The sensor-controller includes a Book 20 connector-based wiring harness to ease installation. The device mounts in a 1/2" knockout and is secured by the included optional clips or via the threaded body.

The product is designed to work with a Bluetooth® SIG mesh system. The sensor-controller communicates directly with DALI drivers and is controlled wirelessly via Bluetooth Mesh technology.

Accessories

The PSC-ZBD-I-11N-BLE-SR sensor-controller operates on power from the DALI Bus. See the Wiring Table for designation of wiring tabs/slots.

Operation

TruBlu™ Mesh Controls: Qualified by Bluetooth SIG for its Bluetooth Mesh 1.0.1 specification, the controller connects to a Bluetooth mesh network and is accessed via the TruBlu web portal or mobile app for initial design, setup and scheduling, as well as subsequent parameter adjustments.

Advanced functionality such as energy monitoring, and demand response is available with the TruBlu Gateway (ordered separately).

Single Channel Control: The sensor-controller provides a single channel of D4i compatible DALI output for driver control.

Daylight Sensor: Features an integral Photocell for daylight control integration.

Quick Connector: The sensor-controller is compatible with Zhaga Book 20 C22-T1A and includes a Book 20 wiring harness.

See TruBlu™ Commissioning User Manual for more information.

Summary

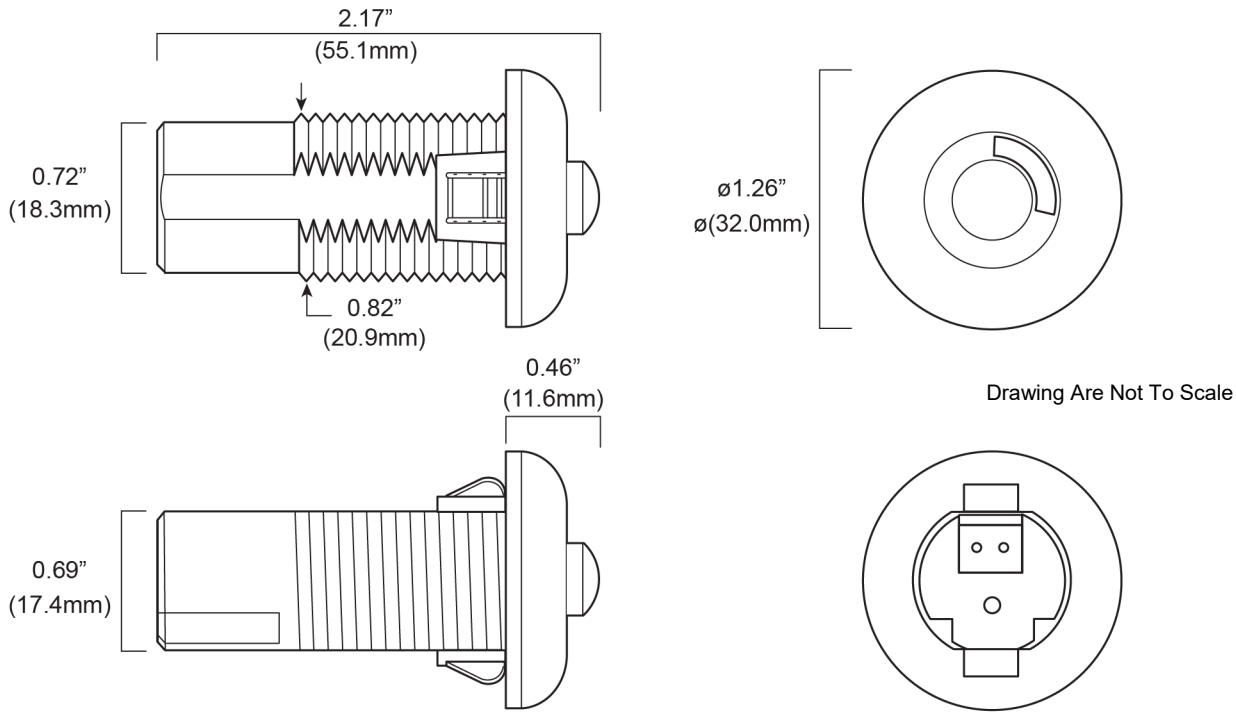
Product Type: Wireless DALI PIR Sensor and Controller
Input Voltage | Current Consumption: DALI Bus | 50 mA
DALI: Complies with DALI Zhaga D4i Specifications
Mounting: Zhaga Book 20 C22-T1A (or 1/2" Knockout)
Mounting Height: 8 to 15ft (2.4 to 4.6m)
Max Sensor Range[1]: 15ft (4.6m) Radius
Max Bluetooth Range[2]: 100ft (30.4m)
Operating Temperature: -40°F to 158°F (-40°C to 70°C)
Storage Temperature: -40°F to 185°F (-40°C to 85°C)
Relative Humidity: 90-95% non-condensing
Color: White
Warranty: 5 years

Note:

1. The application/absolute range of the sensor is subject to variation because of different types of clothing, backgrounds, and ambient temperature. It is recommended to conduct testing for range accuracy.
2. Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for Bluetooth range accuracy.

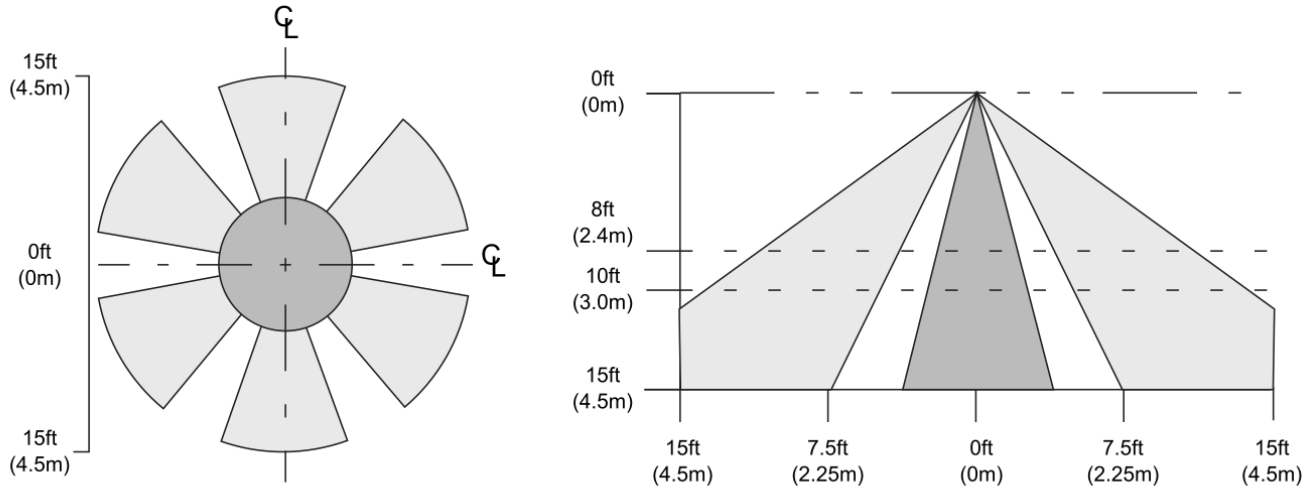
Project	
Location/Type	

Physical Dimensions

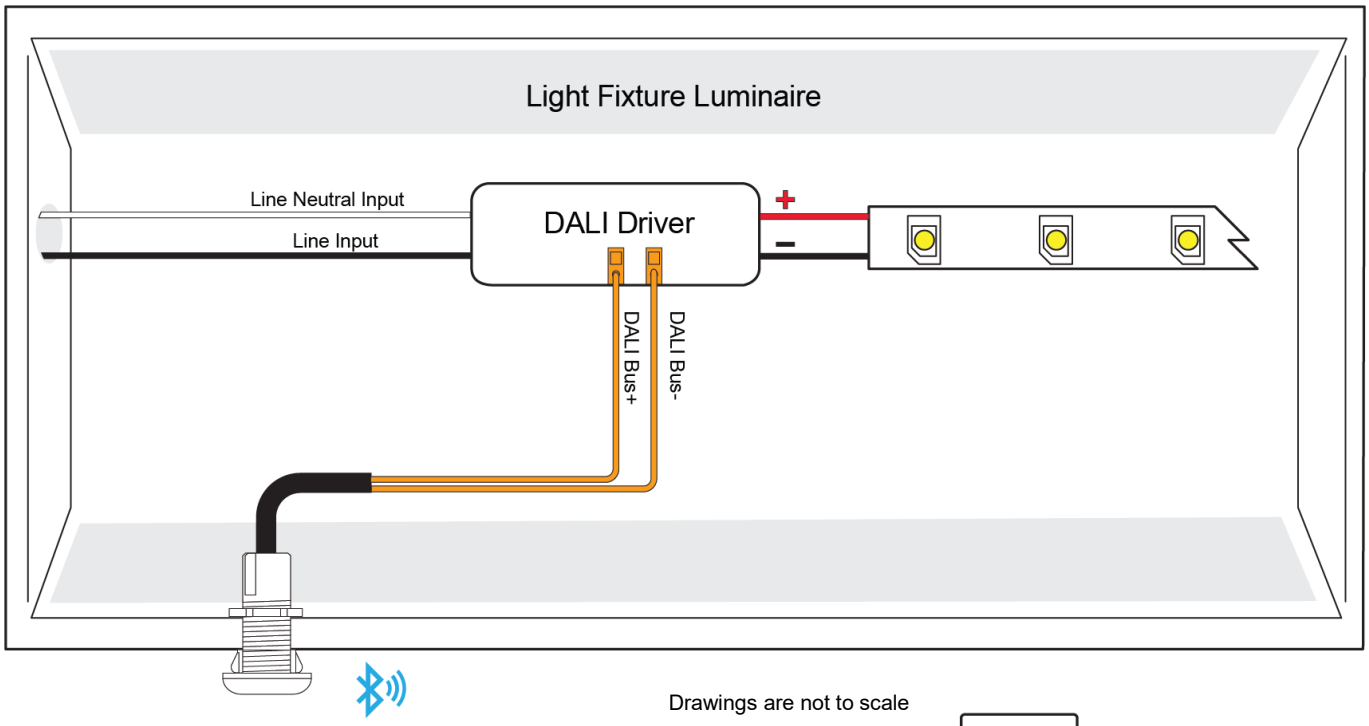


Drawing Are Not To Scale

PIR Sensor Pattern

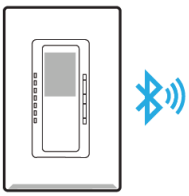


Example Application: Sensor-Controller Installed with DALI Driver



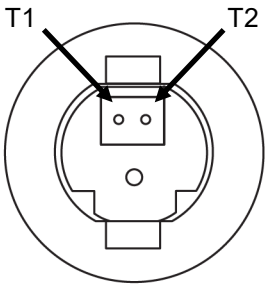
ZBD Sensor-Controller

Drawings are not to scale



Sensor-Controller Wiring

Tab/Slot	Designation	Notes
T1	DALI Bus (Communication & Power)	Black Wire (22AWG)
T2	DALI Bus (Communication & Power)	Black Wire (22AWG)



How To Order

Model No.	Description	Input Voltage	Output
PSC-ZBD-I-11N-BLE-SR	DALI Low Bay PIR Sensor-Controller with Daylight Sensor, TruBlu™Mesh Technology White Finish	DALI Bus (~16VDC)	DALI

Design and specifications are subject to change without notice.