

# Fixture Mounted Wireless DALI Sensor-Controller

## PSC-ZBD-I-1XX-BLE-XI

### Overview

Single Channel DALI Wireless Sensor-Controller  
 Digital Passive Infrared (PIR) Sensor  
 Zhaga Book 20 Compliant (Mount to 1/2" Knockout)  
 Bluetooth® Xicato Xmesh compatible  
 Features High/Low-End Trim Adjustment, Zoning & Continuous Dimming  
 DALI Zhaga D4i Certified  
 Compact Design  
 360° Sensor Coverage Pattern  
 Commissioning using Xicato Control Panel software  
 Energy Monitoring and Scheduling with a Xicato Gateway



### Applications

The PSC-ZBD-I-11N-BLE-XI 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 simplify 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 Xicato Bluetooth® Xmesh system. The sensor-controller communicates directly with DALI drivers and is controlled wirelessly via Bluetooth Mesh technology.

### Accessories

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

### Operation

Xicato Xmesh™ controls provide a seamless Bluetooth based mesh control system for a room, floor, building or site. The controls system includes lights, switches, load controllers as well as gateways for easy integration with a BMS or other lighting control systems as well as cloud connectivity for remote monitoring and/or control.

Key features of Xicato's Xmesh™ controls system are auto-discovery of new devices making it easy to expand your system with both devices and capabilities after initial installation.

**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 the Xicato Controls Platform Manual for more information.

### Specifications

#### 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<sup>1</sup>:** 15ft (4.6m) Radius

**Max Bluetooth Range<sup>2</sup>:** 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

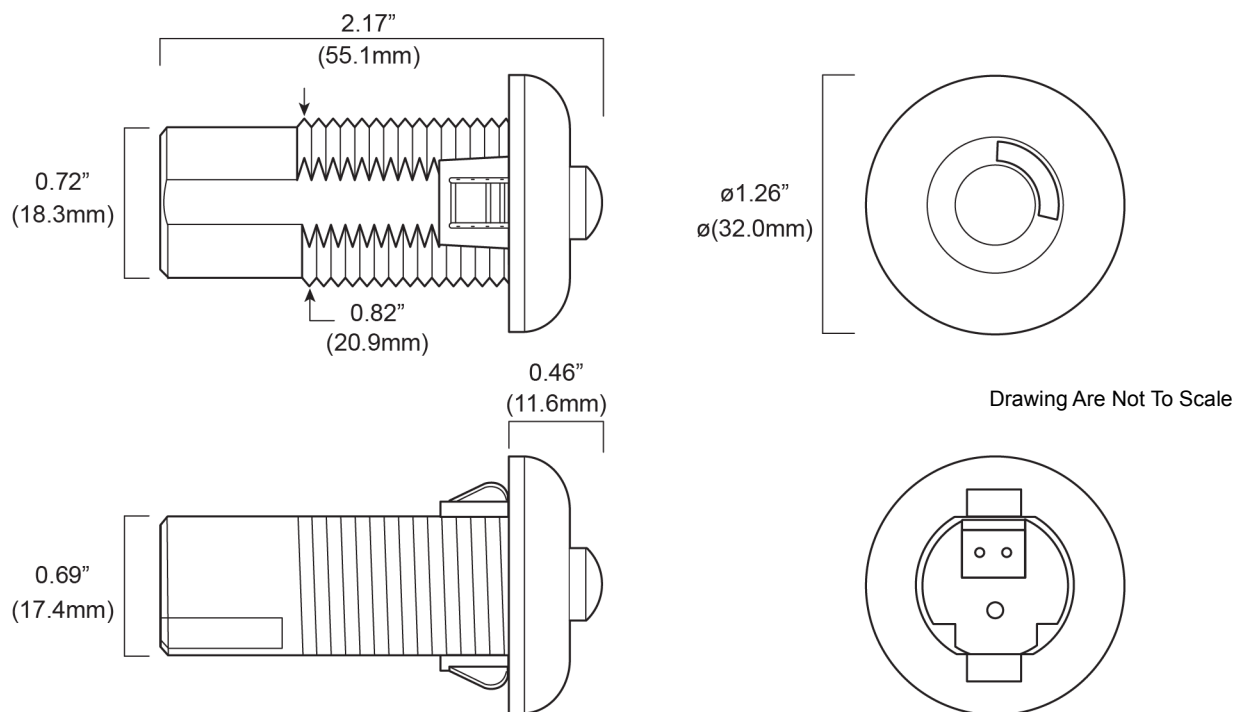
**Color:** White

**Warranty:** 5 years

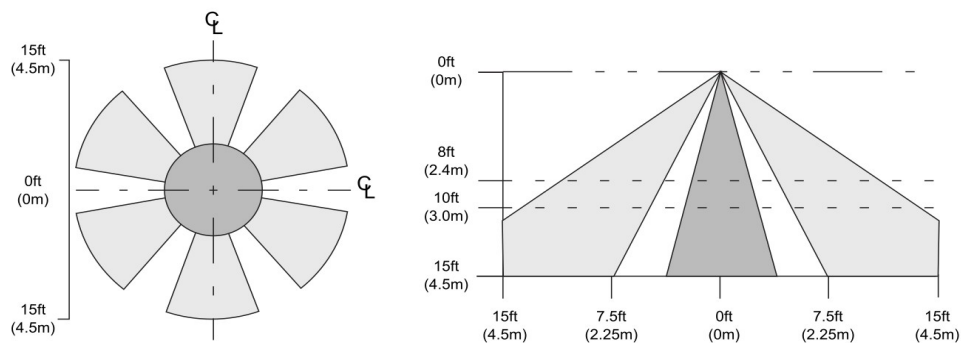
#### Note:

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.

**Physical Dimensions**

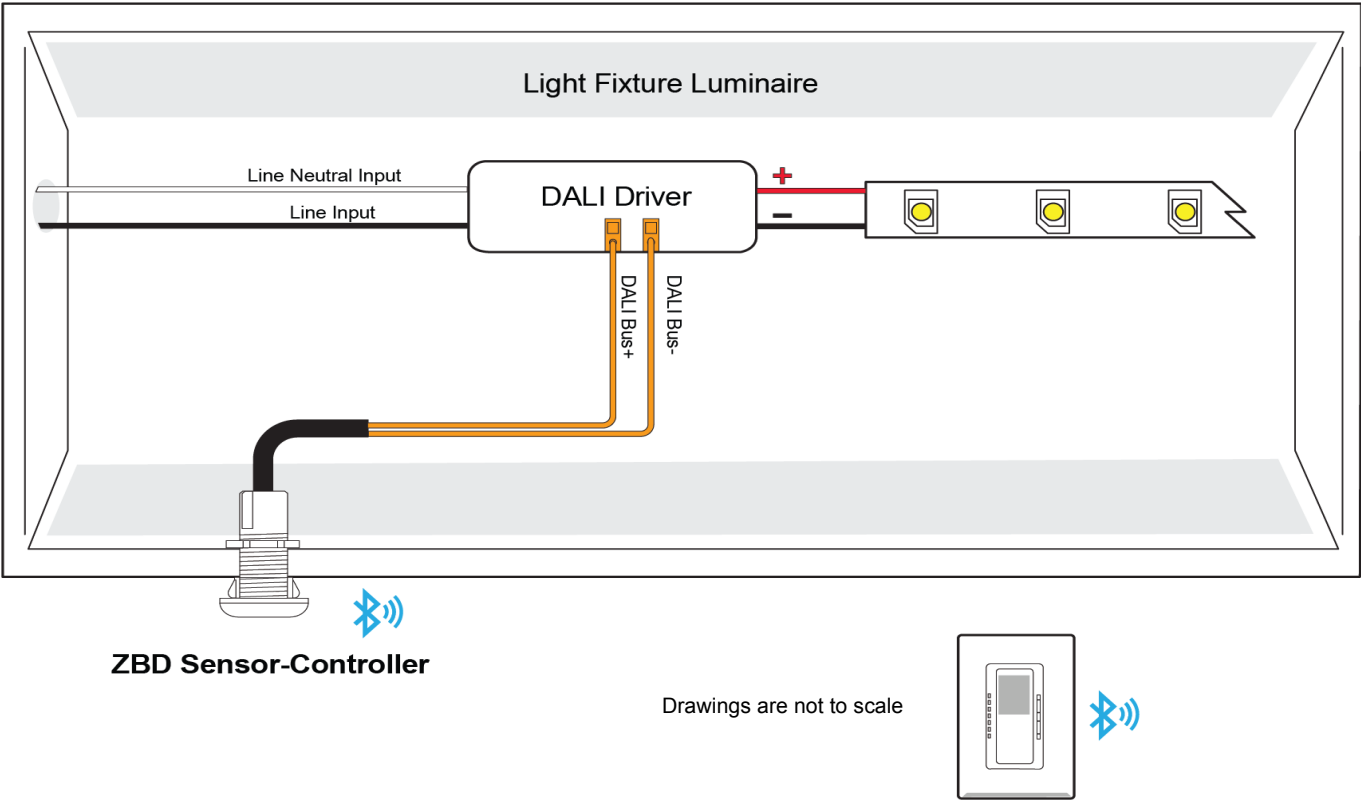


**PIR Sensor Pattern**



**ZBD-I & ZMV-I sensor pattern**

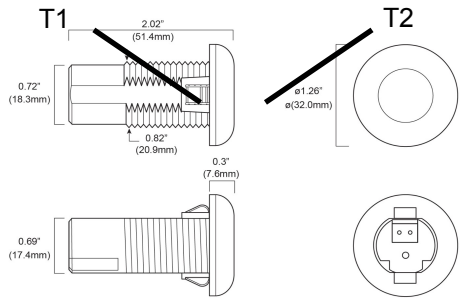
Example Application: Sensor-Controller Installed with DALI Driver



ZBD Sensor with DALI driver

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-XI	DALI Low Bay PIR Sensor-Controller with Daylight Sensor, Xmesh™ Technology White Finish	DALI Bus (~16VDC)	DALI

Design and specifications are subject to change without notice.