

## Ingy Mesh DALI Outdoor Controller

### Overview

- Complies with DALI D4i Specifications
- Single Channel DALI Wireless Controller
- Mounts to Light Fixture/Luminaire via Zhaga Book 18 Quick Connect Receptacle
- Compatible with Ingy Wirepas Mesh Systems
- Optional Photocell available for Ambient Light Detection (-110 & -210 models)
- Features High and Low-End Trim Adjustment, Zoning & Continuous Dimming
- IP65 Rated for Outdoor or Indoor Applications
- 24VDC or DALI Bus Powered Options

### Applications

The PSC-ZAD-WCM products are a series of Single Channel DALI D4i Wireless Fixture Controllers. These controllers are designed to work with a Wirepas mesh system by converting standard Bluetooth® SIG mesh protocol to DALI protocol.

The controllers are IP65 rated and suitable for exterior use. The -110 and -210 versions also have an integral photosensor for ambient light detection.

These devices communicate directly with DALI drivers and are controlled wirelessly via Wirepas Mesh technology allowing for wireless dimming of luminaires. The compact size allows for seamless integration to the fixture.

Two Power Input options are available. The Aux Powered (-100 & -110) models require 24VDC power to operate. The DALI Bus Powered (-200 & -210) models use DALI Bus power to operate. See the product wiring information for wiring designations.

### Operation

**Ingy Wirepas Mesh:** The PSC-ZAD-WCM controller is compatible with a Wirepas mesh network and configured via Ingy software.

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

**Photosensor:** An integral photosensor (-110 or -210 models only) provides ambient light level sensing for automatic control of daytime or nighttime designated scenarios.

**Quick Connector:** The controller mounts to a Zhaga Book 18 compliant receptacle (sold separately - mwConnect part #PSC-ZAD-R1L). One receptacle is required for mounting each controller.

See the Ingy Commissioning User Manual for more information.



For Indoor or Outdoor Use  
Receptacle Sold Separately



### Summary

Product Type:  
Single Channel Wireless Sensor-Controller

Input Voltage | Current Consumption:  
24VDC|3mA max (Aux Powered)  
12-22VDC|38mA max (DALI Bus Powered)

DALI: Complies with DALI D4i Specifications

Suggested Mounting Height:  
Low Bay Lens - 8-30ft (2.4-9.1m)  
High Bay Lens - 20-40ft (6.1-12.2m)

Maximum Sensor Range:  
Low Bay Lens - 60ft (18.3m) radius  
High Bay lens - 80ft (24.4m) radius

Mounting: Mounts to Zhaga Book 18 receptacle (PSC-ZAD-R1L), sold separately

Max Wireless Range<sup>1</sup>:  
450ft (137m)

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 at 30°C

Color: Dark Brown, Black or White

Warranty: 5 years

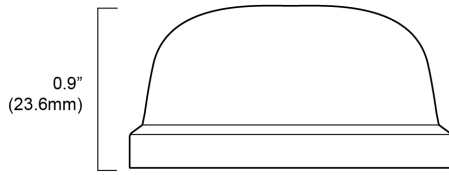
Note:

1. Wireless Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for Bluetooth range accuracy.

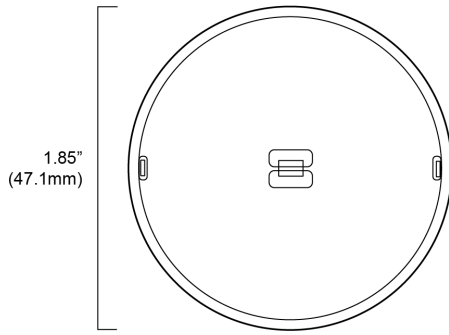
Project

Location/Type

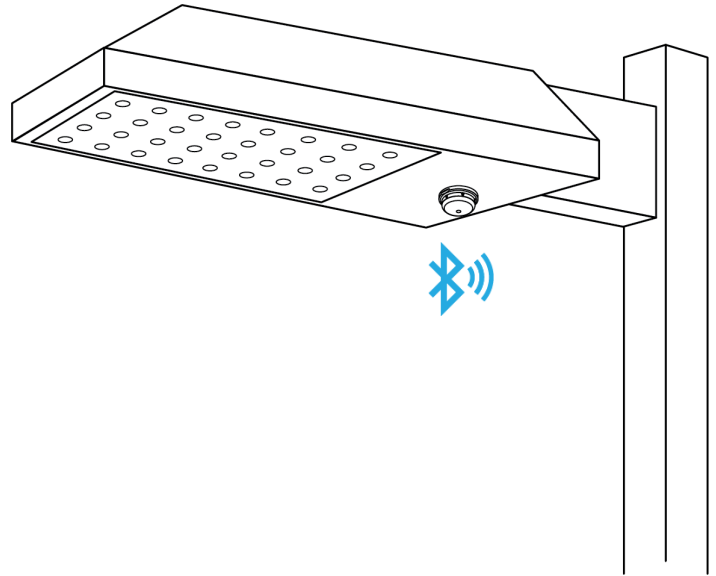
## Physical Dimensions



Front View

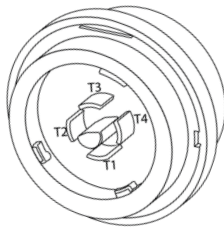


Top View

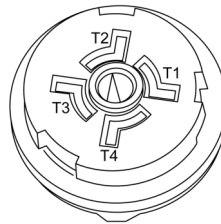


Drawing Are Not To Scale

## Product Wiring



View of Back of Device



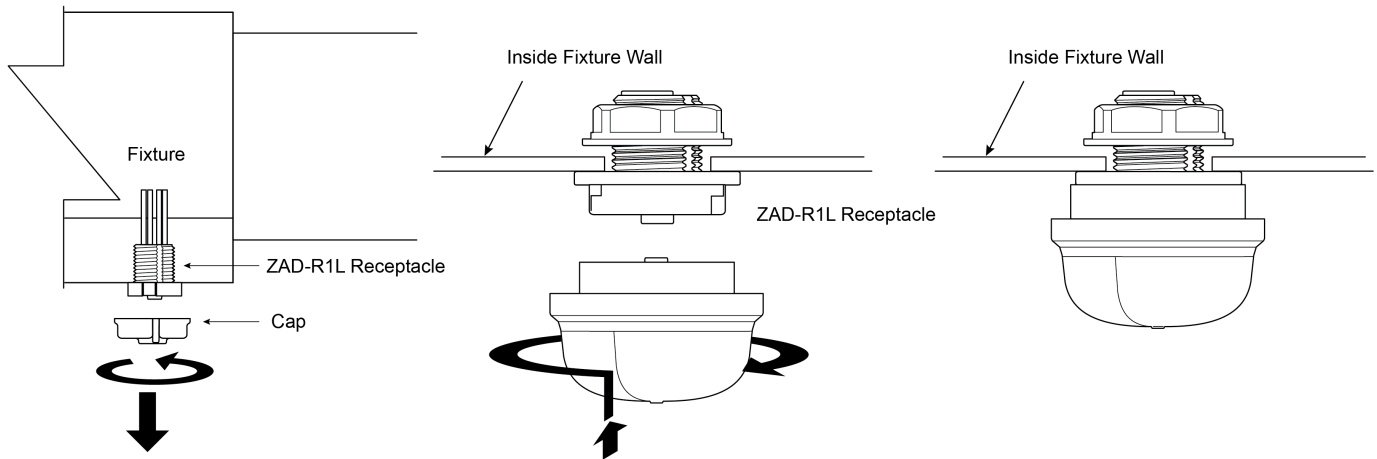
View of Zhaga Book 18  
Device Receptacle

Tab/Slot	Wiring Designation	
	-100 & -110 Aux Powered Models	-200 & -210 DALI Bus Powered Models
T1	24VDC+ Power to Sensor-Controller	Reserved
T2	DALI- (Negative DALI Bus) & 24VDC-Ground Power to Sensor-Controller	DALI (16VDC DALI Bus) Polarity Independent
T3	DALI+ (Positive DALI Bus)	DALI (16VDC DALI Bus) Polarity Independent
T4	Reserved	Reserved

For Wiring Diagrams featuring the PSC-ZAD product series, visit the following link:

<http://mwconnect.us/wiring/PSC-ZAD>

## Installation of Device



To install a ZAD device, first remove the protective cap on the Zhaga Book 18 receptacle by pushing up and rotating counterclockwise.

To install ZAD devices insert, push in and rotate clockwise to lock. No tools are required. Luminaires can be easily and quickly upgraded.

The receptacle for ZAD devices is typically installed by luminaire manufacturer and is shipped to job site with a protective cap.

## Model Number Matrix

PSC	ZAD	WCM	___	WPS	NG	___
PSC	ZAD	WCM	100	WPS	NG	BN
	DALI Outdoor Device	Wireless Controller	Aux Powered	Wireless	Ingy Wirepas Mesh Compatible	Brown Finish
			110			WT
			Aux Powered Photo Sensor			White Finish
			200			BK
			DALI Bus Powered			Black Finish
			210			GY
			DALI Bus Powered Photo Sensor			Gray Finish

Example:

**PSC-ZAD-WCM-110-WPS-NG-BN**

Design and specifications are subject to change without notice.