



## Radial ZP10

0-10V Zhaga Controller with  
PIR Motion and Daylight Sensing

## Product Overview

Radiar ZP10 is BLE5.2 wireless multi-sensing controller that comes with a Zhaga book 18 connector. This compact product has PIR motion sensing, daylight sensing and 0-10V single channel output to control an LED driver. When powered, device acts by default as a 0-10V single channel controller. The PIR motion sensing and daylight sensing features can be enabled from Lumos Controls mobile application based on the requirements. This IP65 rated plug and play device is specially designed for UFO high-bay fixtures, shoeboxes, wall packs, streetlights applications.

The Lumos Controls ecosystem comprises controllers, sensors, switches, modules, drivers, gateways, and analytical dashboards. It is listed by the Design Lights Consortium (DLC), qualifying it for energy conservation incentive programs and rebates by utility companies.

## Specifications

### Electrical

Specifications	Value
Input voltage	12-24VDC
Input current	≥ 8mA

### Bluetooth

Specifications	Value
Operation frequency	2.4-2.483GHz
Transmission power	8dBm
Range	10-45m(32.8 -147.6ft) depends on the environment

## Features

- BLE 5.2 strong wireless communication
- Powered from 12-24VDC auxiliary output of driver
- 0-10V single channel output for controlling the intensity of driver
- PIR motion sensing for max 12m installation height, provides a max detection range upto16-18m diameter
- Ambient daylight sensing
- Compact sized for easy installation
- IP65 rated for outdoor applications
- Supports Over-the-Air (OTA) firmware update

### Environmental

Specifications	Value
Working temperature	-20 to 60°C(-4 to 140°F)
IP rating	IP65

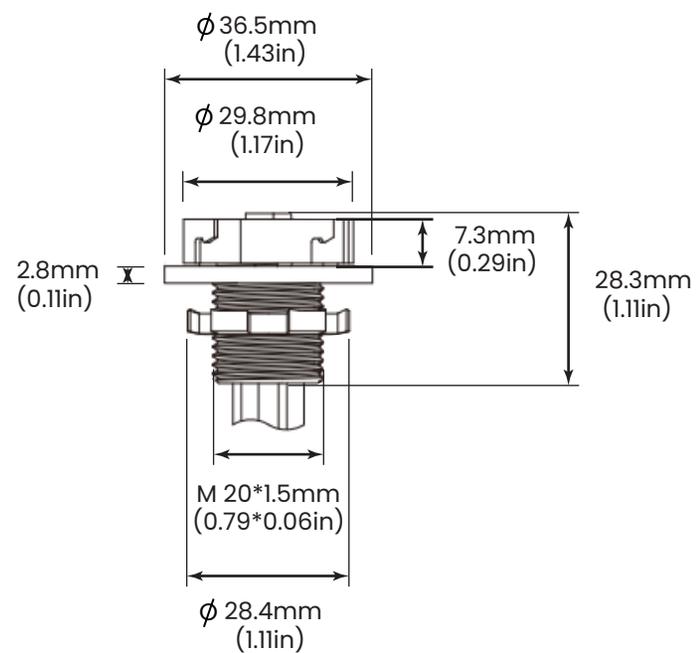
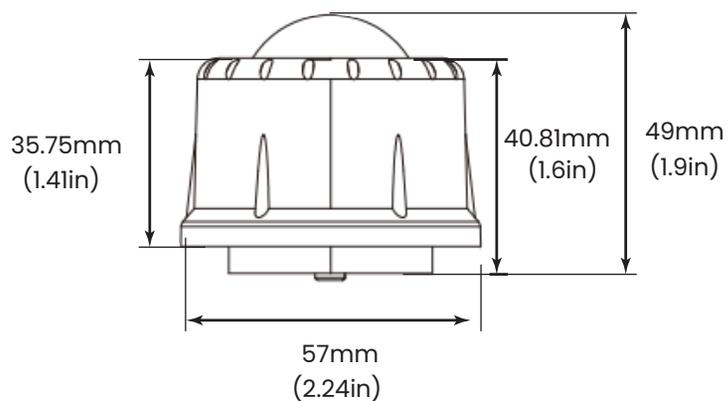
### Sensor

Specifications	Value
Max installation height (for PIR sensing)	12m (39.4ft)
Max motion sensing detection range	16-18m(52-59ft) in diameter

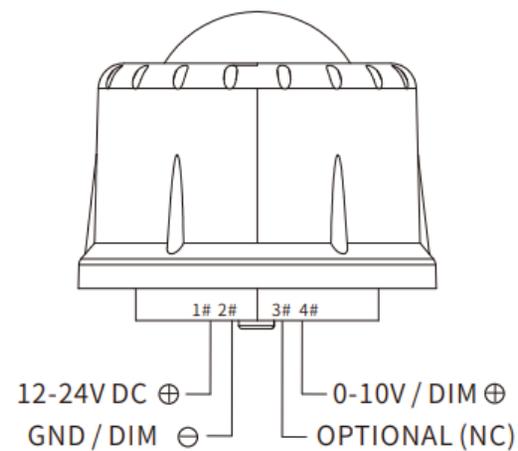
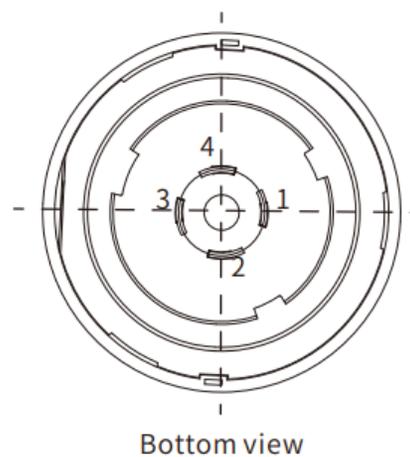
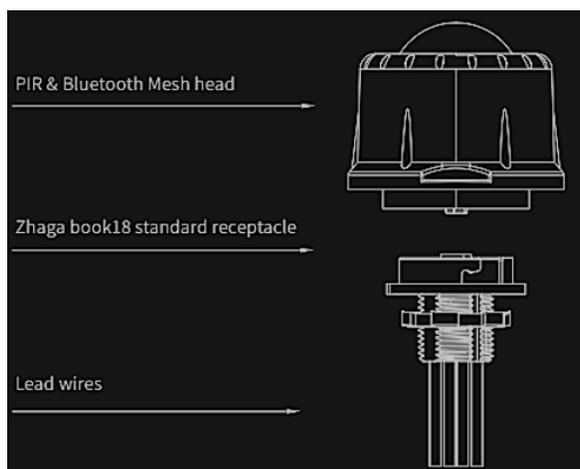
### Dimming

Specifications	Value
Output channel	0-10V/ 20mA, 0-100% rang

## Product Dimension

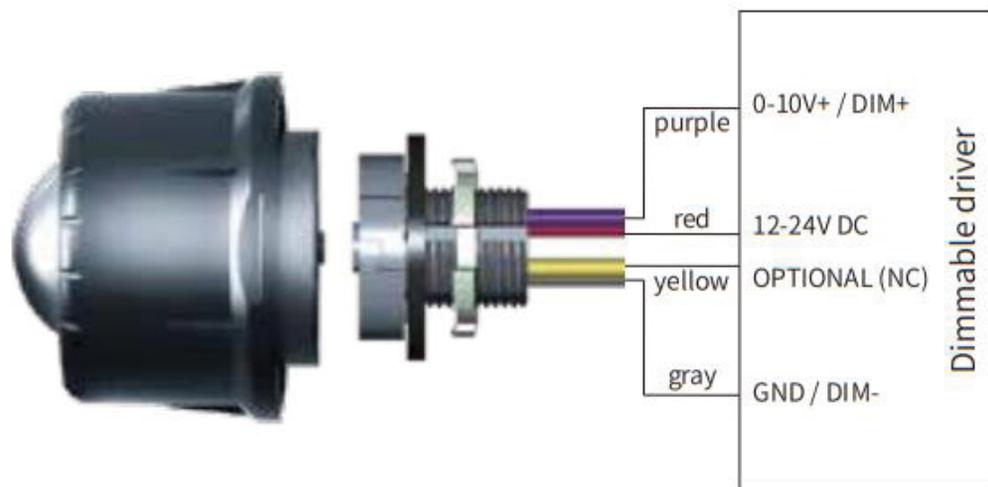


## Wire Description



Pin	Description	Lead wire color
1	12-24VDC input	Red
2	GND/DIM-	Gray
3	No Connection	Yellow
4	0-10V DIM+	Purple

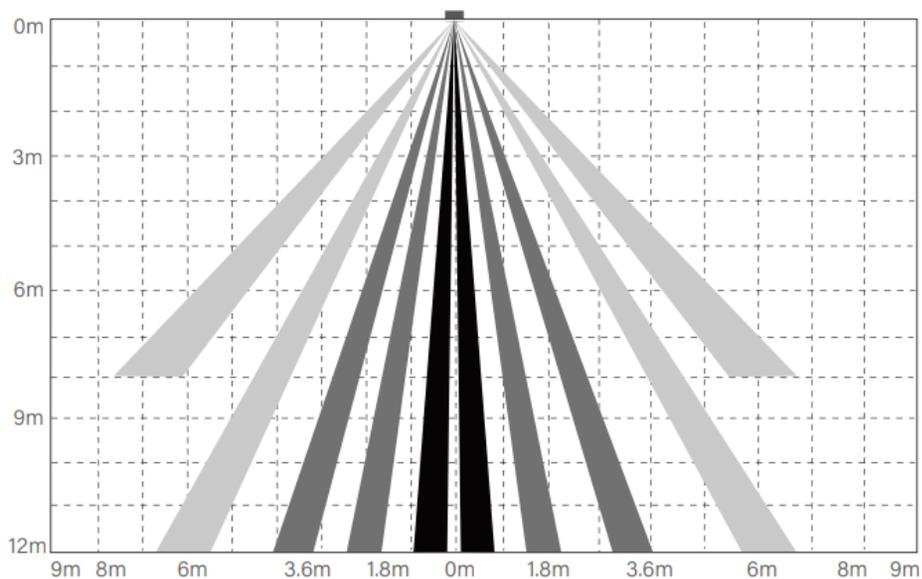
## Wiring Diagram



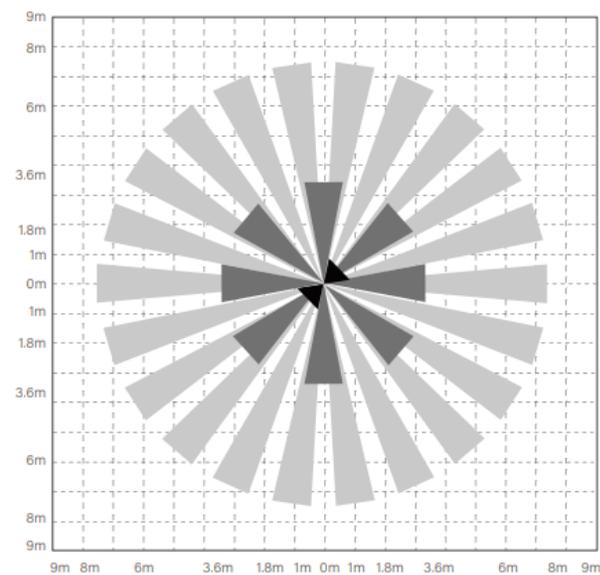
The product is powered from 12-24VDC auxiliary output of driver. 0-10V output channel is connected to the driver for dimming.

The motion sensor and daylight sensor (inactive by default) in the device can be configured and activated using Lumos Controls mobile application based on the requirement.

↓ PIR motion  
detection pattern

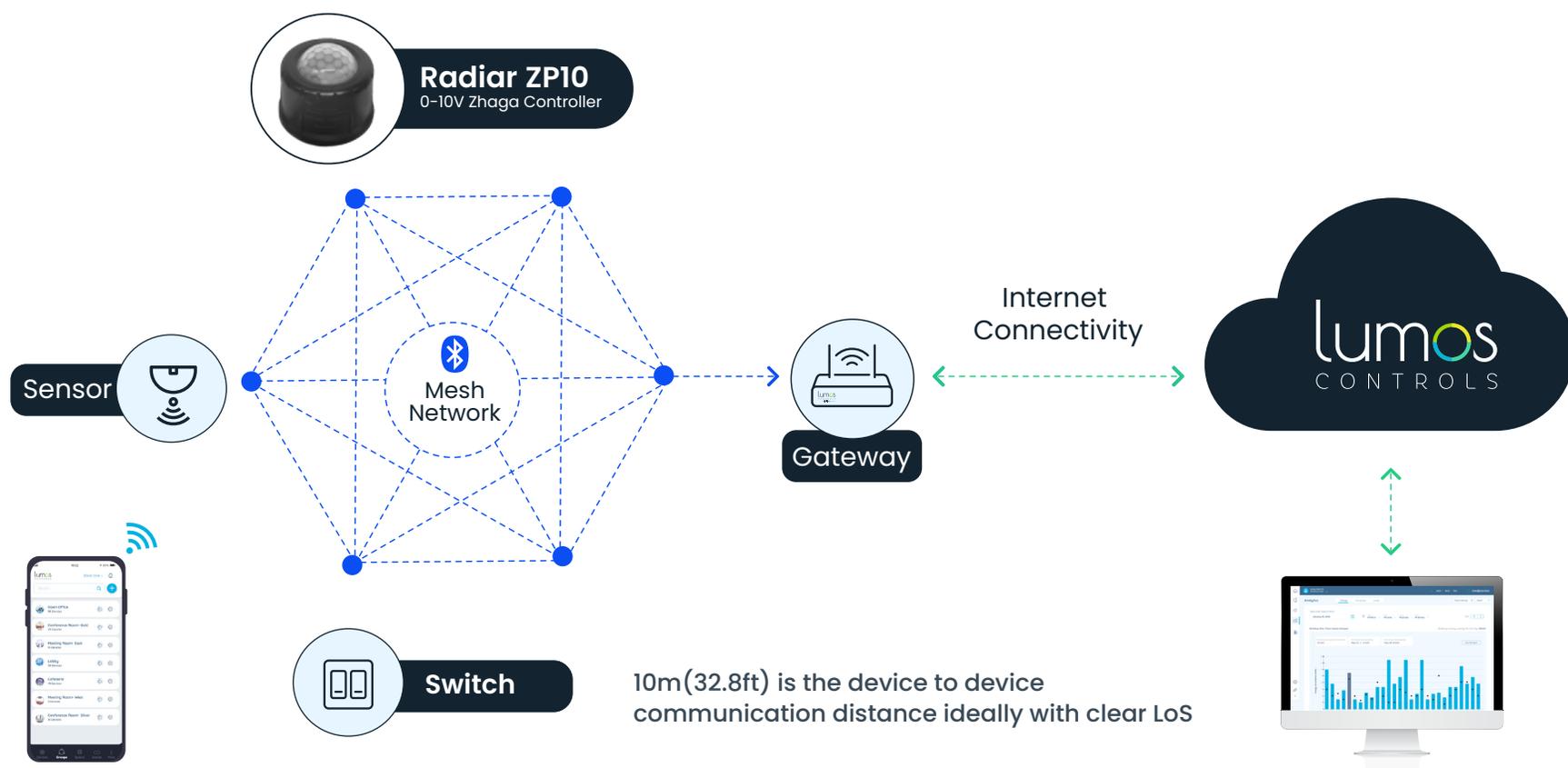


*Side view*



*Top view*

## Smart Ecosystem



## Ordering Information

Product Code	Product Name	Product Description	Communication	Voltage Rating	Sensor Input
WXDCPLZ18	Radial ZP10	0-10V Zhaga Controller with PIR motion and Daylight sensing	BLE5.2	12-24VDC	Motion and Daylight Sensor

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20321 Lake Forest Dr D6,  
Lake Forest, CA 92630

[www.lumoscontrols.com](http://www.lumoscontrols.com)  
+1 949-397-9330