

# LOW VOLTAGE DALI OUTDOOR PHOTO/MOTION PIR SENSOR

## FDP-301

Two lens configurations  
for mounting heights from  
8' to 40'

IP66 rated housing



Stream-lined design  
for seamless fixture  
integration

Manual reset button for  
security recovery



## Description

The FDP sensor series allows your fixture to participate in the internet-of-things (IoT) revolution. This sensor family features bi-directional communication between sensor and driver, enabling connected systems for smarter, more energy efficient and data-driven applications. The FDP sensor series is compatible with various intelligent drivers including Signify SR or many other connected drivers. By connecting to an intelligent driver, the FDP sensor series does not need its own power supply which will save cost and space inside the luminaire.

## Operation

Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

## Features

- SR-certified by Philips (FDP-301SR only)\*
- 4 pin connector (for Zhaga book 18 socket installation)
- DALI 103 and 303\* compatible (FDP-301 only)
- High or low trim fully adjustable from 1 to 10V
- Time delay from 30 seconds to 30 minutes
- Optional cut off delay
- Ramp up and fade down times (2 seconds; 10 seconds)
- 2 lens configurations for 8–15 ft or 40 ft
- Bluetooth Commissioning utilizing the Wattstopper Configuration App
- Polycarbonate construction; flame retardant, UV resistant, impact resistant, recyclable
- UL244A and UL508; IP66 rated (when fully assembled and installed) for use in wet locations
- This product meets the materials restrictions of RoHS

\*DALI 303 features are continually released. Please consult Wattstopper for a list of current features.

## Configuration

Configuration is possible through the Sensor Configuration App for iOS® or Android® (Search for Wattstopper Sensor Configuration App) or through compatible DALI devices and outdoor lighting controllers conforming to Zhaga or DiiA standards (103 and 303\*) remotely.



## Applications

The FDP sensors series attaches to a luminaire in two different methods allowing more design freedom for our OEM customers. The FDP series is available with a traditional threaded nipple that attaches utilizing a ½" knock-out. The FDP series is also available with a Zhaga Book 18 compliant push-and-twist lock interface.

The sensor is ideal for areas such as parking facilities, gas stations, pedestrian pathways street lighting, and warehouses.

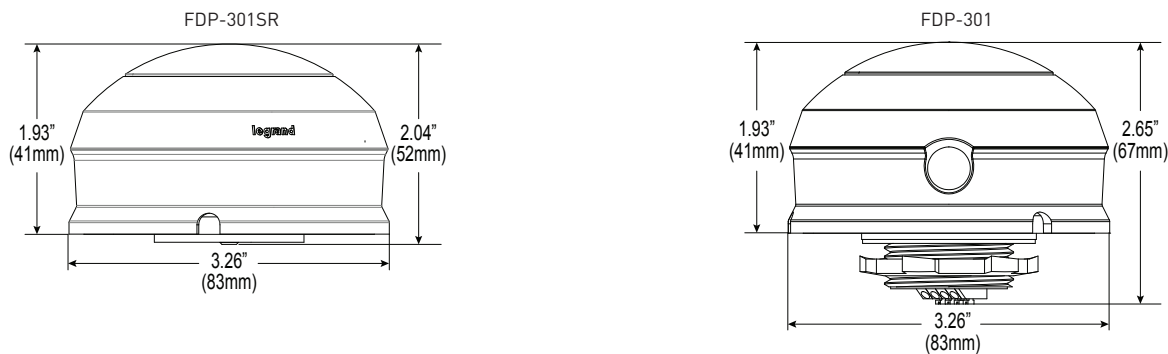
Not suitable for Roadway Detection

PROJECT	LOCATION/ TYPE

## Specifications

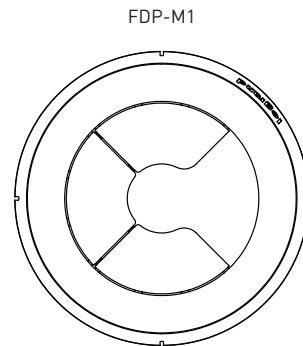
- Input voltage: FDP-301SR –12-20 VDC
- Current Consumption: 16mA from DALI bus
- Trim level: 1-10V; default 1V
- Time delay: 30 sec.–30 min.; default 15 minutes
- Cut off delay: 1/2 of time delay
- Ramp up time: 2 seconds
- Fade down time: none, 10 seconds
- Operating conditions: -40 to 167°F (-40 to 75°C); 5-95% RH
- Dimensions: FDP-301SR 2.04" x 3.26" (52mm x 83mm)  
FDP-301 2.65" x 3.26" (67mm x 83mm)
- Weight: FDP-301SR – 4 oz, FDP-301 – 4.4 oz
- IP66
- CE certified
- UL and cUL listed (E101196)
- IK09 Impact Rating Pending
- Five year warranty

## Dimensions

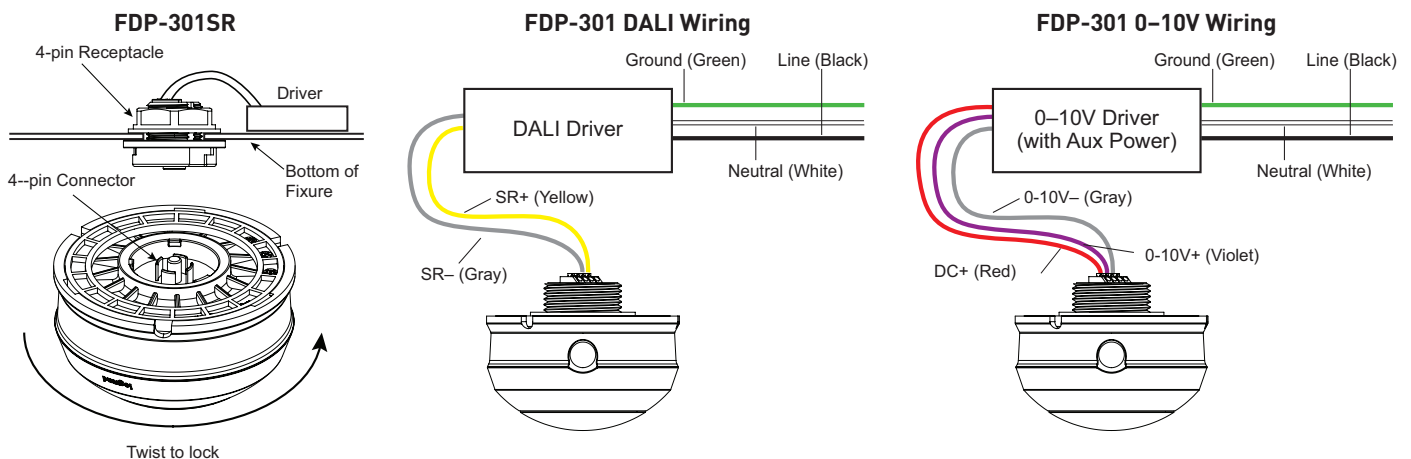


## FDP-M1 Sensor Mask

The included FDP-M1 mask provides the ability to limit coverage areas for example, in hallways or multi-use environments. The mask has three 90° sections. One or two of the sections can be removed, to provide different coverage patterns. Snap the mask onto the lens and rotate to the desired position.



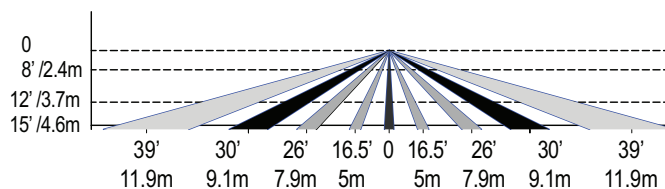
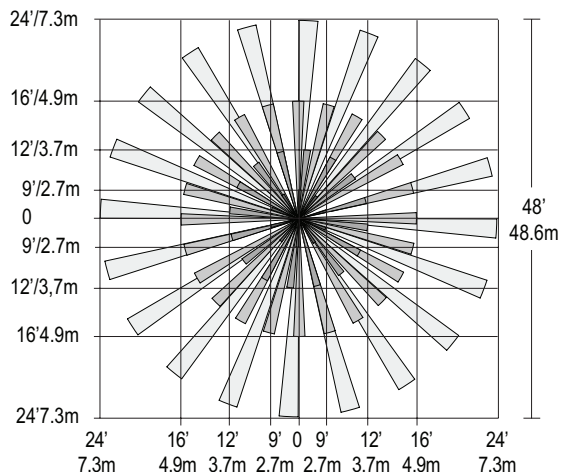
## Wiring



## Coverage

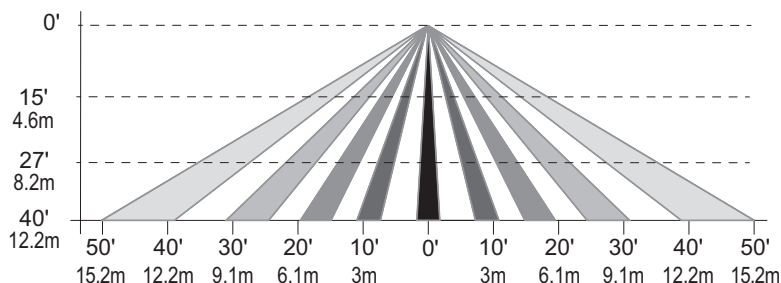
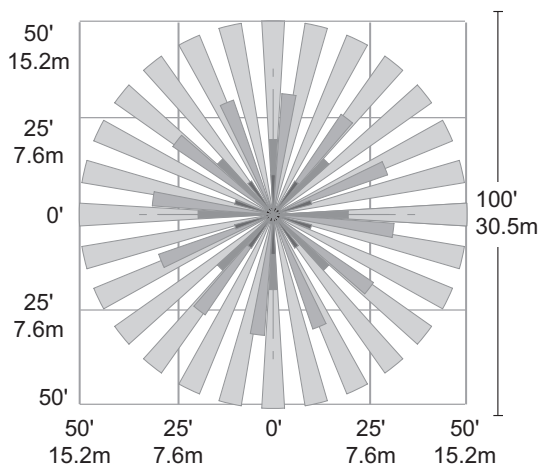
**L2 Lens** The FDP-L2 is designed for mounting at heights between 8' to 15'. It provides a 48' diameter coverage area when mounted at a height of 8', or a 78' diameter coverage area at 15'.

**Top view @ 8 ft.**



**L7 Lens** The FDP-L7 has a lens that covers a 100' diameter area at a height of 40'.

**Top view @ 40 ft.**



## Ordering Information

Catalog #	Description
<input type="checkbox"/> FDP-301SR-L7-X	PIR DALI Sensor, 40ft Mount, 4 Pin Connector
<input type="checkbox"/> FDP-301SR-L2-X	PIR DALI Sensor, 8-15ft Mount, 4 Pin Connector
<input type="checkbox"/> FDP-301-L7-X	PIR DALI/0-10v Sensor 40ft Mount Terminal Connector
<input type="checkbox"/> FDP-301-L2-X	PIR DALI/0-10v Sensor 8-15ft Mount Terminal Connector
<input type="checkbox"/> FDP-M1-X	FDP Mask (included, for replacement only)

X = Color (TG = Traffic Gray, W = White)

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