

CitySense Lite Model 1 is an innovative street light sensor, which works together with SkyLite Prime and OpenSky Zhaga IoT light controllers.

It delivers the motion trigger to realize on-demand lighting, making street lights adjust brightness based on the human presence detection. When there is nobody in the vicinity, street light(s) remains at a predefined low brightness. Upon detection of a pedestrian, cyclist or slow-moving car, the street light(s) spontaneously brightens up. This reduces energy consumption by up to 80% without compromising public safety and comfort.

The sensor uses the standardised Zhaga Book 18 interface, which enables a quick tool-free installation. It also complies with SR and D4i specifications, eliminating the need of an additional power supply.

It is a perfect dynamic street lighting solution for public parks, pedestrian pathways, bicycle paths, residential areas and university campuses.

CitySense Lite Model 1 comes in two variants:

- **Model 1A (PR165201): Mounts at 12 meter height & offers 15 meter radius coverage**
- **Model 1B (PR165202): Mounts at 4 meter height & offers 12 meter radius coverage**



Zhaga

IP66

Features

- Zhaga Book 18 interface – plug & play installation
- Detects pedestrians, cyclists and slow-moving cars; filters out rain, snow and wind
- In-built photocell / ambient light sensor
- Suitable for standalone as well as connected mode
- Control via CityManager LMS*
- Lamp neighbour trigger functionality (Safe Circle of Light)*
- Provides the triggers for heatmaps in CityManager LMS to track occupancy levels and traffic intensity*

* When connected to suitable Zhaga D4i Lamp Controller

Benefits

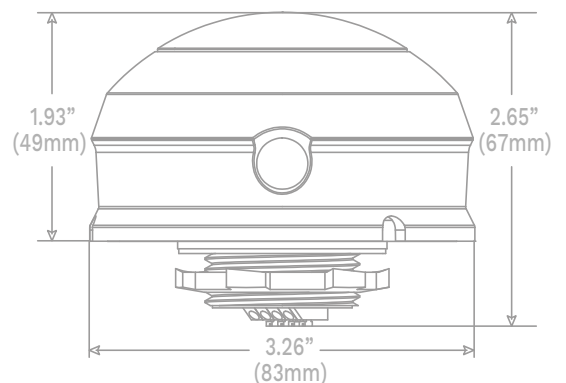
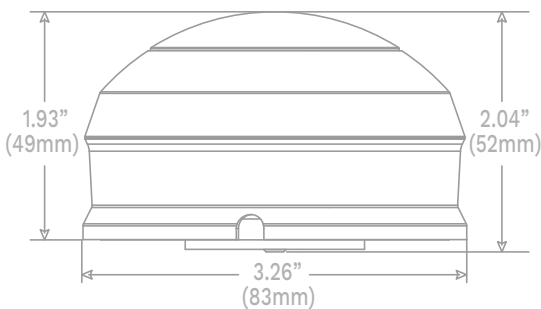
- Up to 80% energy savings
- Enhanced public safety
- Reduce light pollution and CO² emissions
- Light on demand

SPECIFICATION

Product	Motion detection sensor
Operating modes	Standalone as well as Connected (to a Zhaga Controller supporting multi-master DALI)
Coverage	<p>Detects pedestrians, cyclists, and slow-moving vehicles</p> <p>Two variants: Model 1A (PR165201): 12m height. 15m radius Model 1B (PR165202): 4m height. 12m radius</p> <p>*Optional sensor mask is available to limit the coverage areas</p>
Input voltage	12 - 24V DC
DALI bus current consumption	16mA max
Operating temperature	-40°C to +75°C
Storage temperature	-40°C to + 75°C
Operating humidity	5% to 95% non-condensing
Certification	CE, UKCA, UL and cUL listed
Ingress protection classification	IP66 rated
Impact protection classification	IK09 rated

MECHANICAL DATA

Enclosure	Polycarbonate, flame retardant, UV resistant, recyclable meets materials restrictions of RoHS
Weight	60 grams
Dimensions	83mm x 52mm

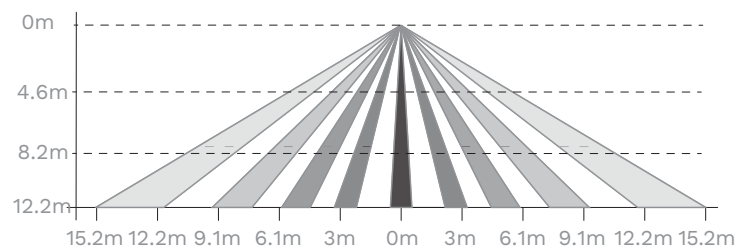
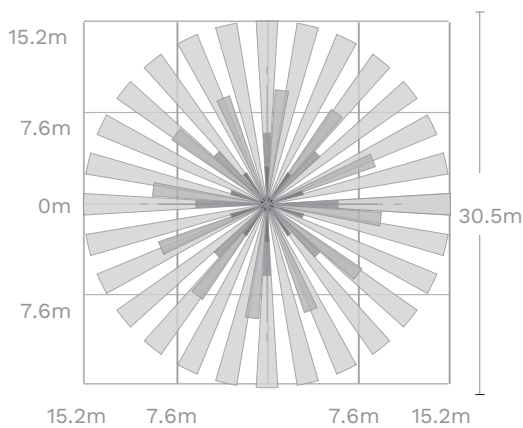


FACTORY DEFAULTS (when installed Standalone)

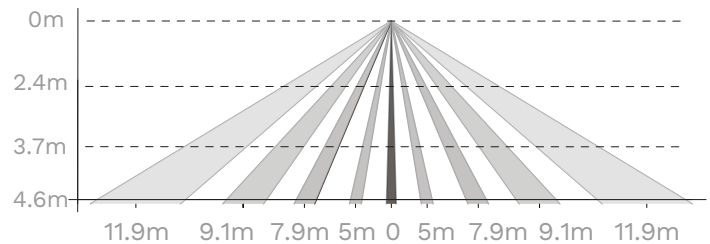
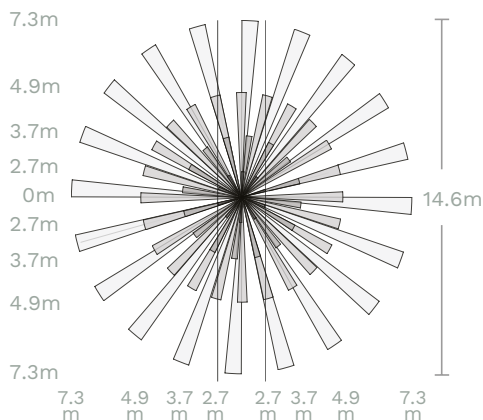
High mode	100%
Low mode	40%
Time delay	5 minutes
Cut off	Disabled
Setpoint	Disabled
Sensitivity	Max
Ramp up time	Disabled
Fade down time	Disabled
Photocell on/off	Disabled

COVERAGE

Model 1A (PR165201) - top and side coverage patterns at 40 feet

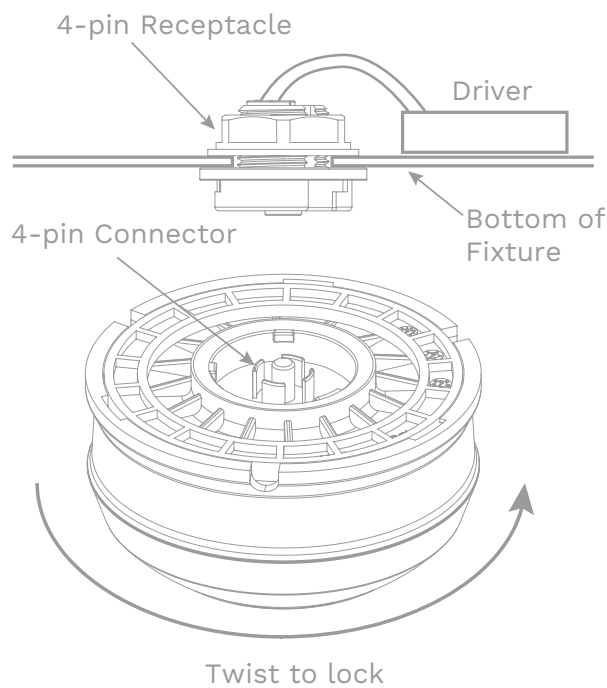


Model 1B (PR165202) - top and side coverage patterns at 8 feet



WIRING & MOUNTING INFORMATION

Pin Number	Function
1	Not used
2	Negative Pole for DALI / common ground
3	Positive Pole for DALI
4	Not used



ORDERING INFORMATION

Order Code	Product Description	Packaging Unit	Dimensions	Weight
PR165201	CitySense Lite Zhaga Model 1A 15m detection radius at 12m mounting height	Single	11,5 x 9,5 x 10 cm	0,20 kg
PR165202	CitySense Lite Zhaga Model 1B 12m detection radius at 4m mounting height	Single	11,5 x 9,5 x 10 cm	0,20 kg

ASSOCIATED PRODUCTS

PR155901	SkyLite Prime Zhaga RF (24V)
PR166203	OpenSky Zhaga IoT