CitySense Lite

PR165201 / PR165202

TVILIGHT
EMPOWERING INTELLIGENCE

CitySense Lite is an innovative street light sensor, which works together with an intelligent outdoor light controller.

It delivers 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 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.

CE IP66 DALI

Zhaga CERTIFIED

Features

- Zhaga-D4i Compatible
- Zhaga Book 18 Interface – Plug & Play Installation
- Detects Pedestrians, Cyclists and Slow-moving Cars. Filters out Rain, Snow and Wind.
- Inbuilt Photocell / Ambient Light Sensor
- Suitable for Standalone as well as Connected mode
- Full Remote Management & Control via CityManager *
- Lamp Neighbour Trigger Functionality (Safe Circle of Light)*
- Heatmaps to track occupancy levels and traffic intensity*
- Advance Street Light Data*
- Open API for 3rd Party Software Compatibility*

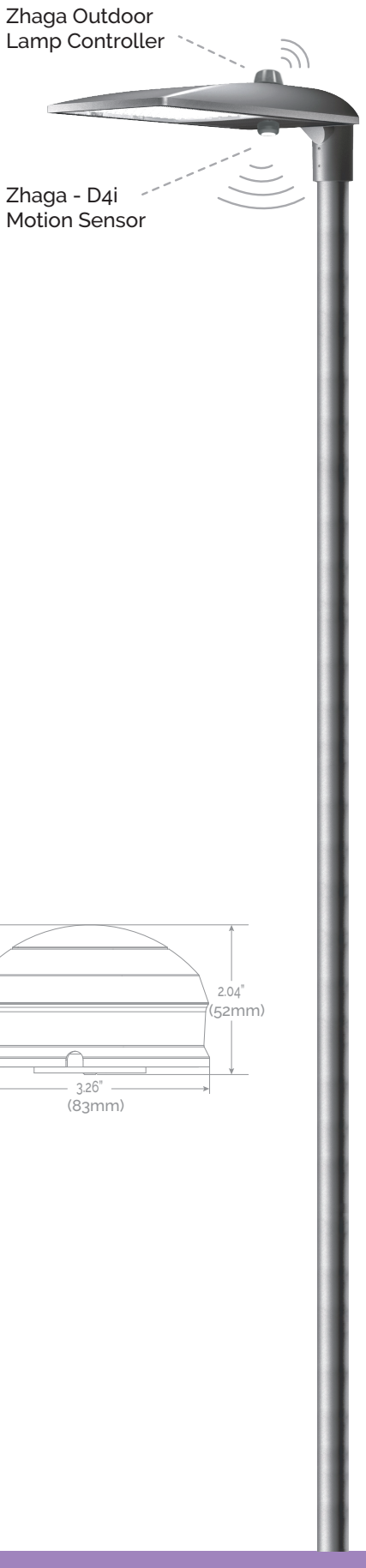
* When connected to suitable Zhaga D4i Lamp Controller

Benefits

- 80% — Up to 80% Energy Savings
- Enhanced Public Safety
- -CO_2 — Reduce Light Pollution and CO_2 Emissions
- Light on Demand

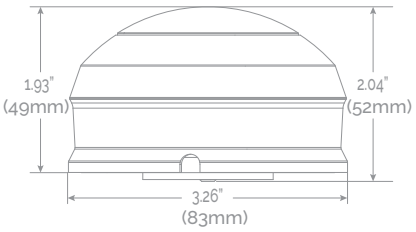
Specifications and Features

Product	Motion detection sensor
Operating modes	Standalone as well as Connected (Zhaga Controller with multi-master DALI)
Coverage	Detects pedestrians, cyclists, and slow-moving vehicles Two lens configurations: 5201: Zhaga 24Vdc (12m height. 15m radius) 5202: Zhaga 24Vdc (4m height. 12m radius) *Optional sensor mask is available to limit the coverage areas
Input voltage	12 - 24 Vdc
DALI bus current consumption	16 mA max
Hold time	1 second, 0 seconds to 42 minutes
Adjustable cut off delay	none, 1 to 60 minutes, 1 to 5 hours
Adjustable sensitivity/service mode	low, med, max
Photocell	Enable/Disable, 1 to 250 fc
Adjustable ramp and fade times	1 to 60 seconds
Operating temperature	-40˚C to +75˚C
Storage temperature	-40˚C to + 75˚C
Operating humidity	5% to 95% non-condensing
Certification	CE, 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

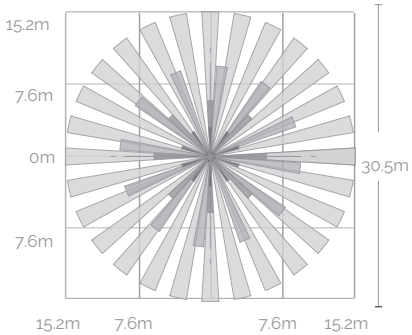


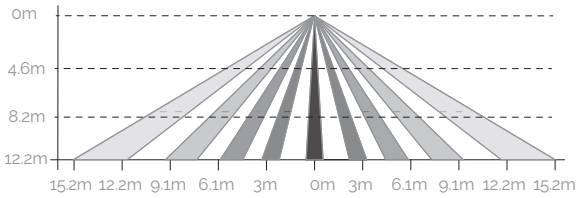
Factory Defaults (when installed Standalone out-of-the-box)

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

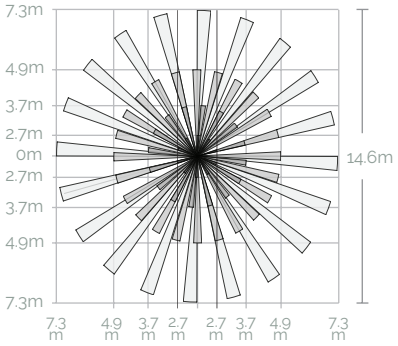
Coverage

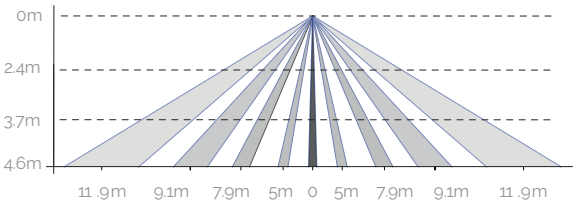
5201 Lens - top and side coverage patterns at 40 feet





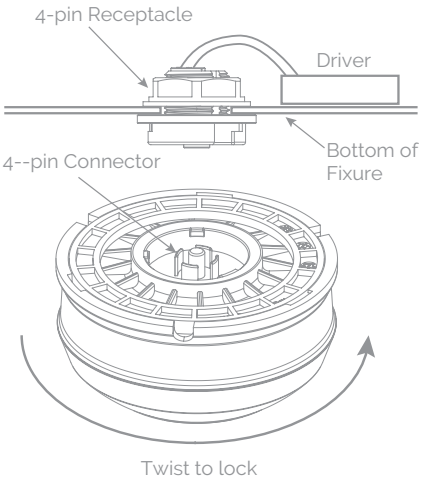
5202 Lens - top and side coverage patterns at 8 feet





Wiring Information

Pin Number	Function
1	Not used
2	DALI (or DALI-based protocol) - / common ground
3	DALI (or DALI-based protocol) +
4	Not used



Ordering Information				
Order Code	Product Description	Packaging Unit	Dimensions	Weight
PR165201	CitySense Lite (24 Vdc, Zhaga Book 18, 15m detection radius at 12m mounting height)	Single	11,5 x 9,5 x 10 cm	0,20 kg
PR165202	CitySense Lite (24 Vdc, Zhaga Book 18, 12m detection radius at 5m mounting height)	Single	11,5 x 9,5 x 10 cm	0,20 kg
		10 units	21,5 x 48,5 x 12,5 cm	2 kg
		40 units	44,5 x 49,5 x 26,5 cm	8,9 kg

Associated Products	
PR155901	SkyLite Prime (24 Vdc, Zhaga Book 18, D4i, RF Mesh, Multipack 12)
PR166202	OpenSky IoT (24 Vdc, Zhaga Book 18, D4i, IoT Cellular, Multipack 12)
PR161436	CityManager Software License - Annual Fee per Light-Point
PR172281	CityManager Software License - Lifetime Usage per Light-Point

Applications


Public parks


Pedestrian pathways


Bicycle paths


Residential areas


University campuses