



Description

The PIR Zhaga Motion sensor can be combined with an esave SLC-Hub. Together they are a solution for the intelligent control of outdoor public lighting, which allows to convert a conventional system into a smart connected lighting system. The PIR Zhaga sensor comes with a weather-sealed and robust housing, providing resistance against UV rays and protection of the control module from harsh environment.

The PIR Zhaga Sensor is not D4i Ready and pin 4 of the Zhaga connector must be connected.

Application

Application areas:

- All types of outdoor lights
- Roadway Lighting

Smart City Applications:

- City management system
- Enables further smart services like traffic counting, incident detection or pollution monitoring

Features

- Push-and-twist locking mechanism for easy installation
- Based on Zhaga Book 18 industry standards
- A base used with a dome creates an IP66 sealed IK09 impact rated enclosure

Types

PIR5 ST Zhaga Sensor

- Standard sensor for the installation height up to 6m

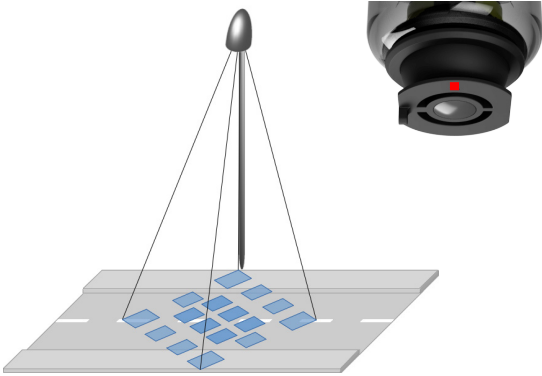
PIR5 HS Zhaga Sensor

- High Sensitivity sensor for the installation height above 6m and up to 12m



Installation

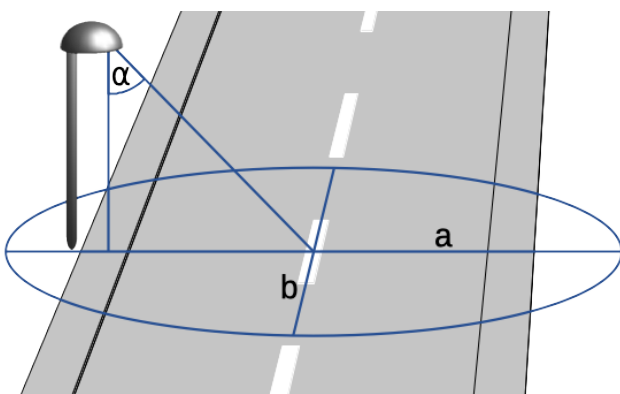
- Rotate the detection field 45°
- The small marking should point towards the middle of the street
- The PIR adapter allows the tilt of the sensor in all directions



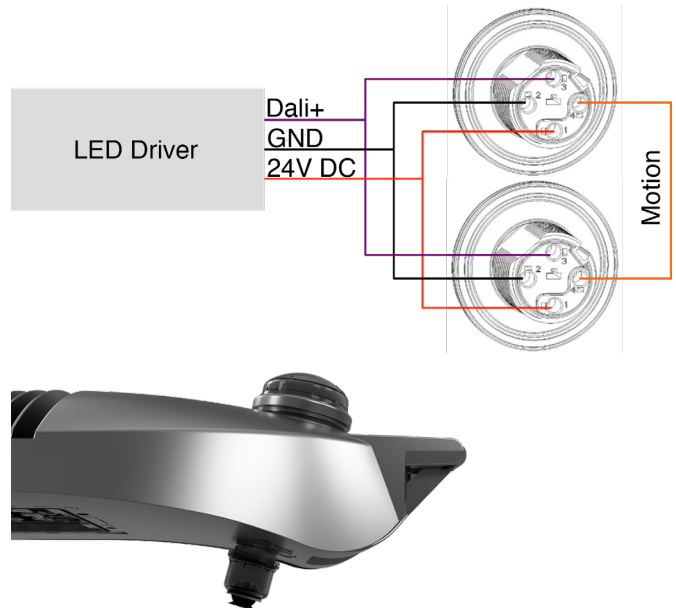
Alignment

Height	Alignment angle alpha				
		0°	10°	20°	30°
5m	a	8.4	8.8	10.5	14.6
	b	8.4	8.5	8.9	9.7
6m	a	10.1	10.6	12.6	
	b	10.1	10.2	10.7	
7m	a	11.7	12.4	14.7	
	b	11.7	11.9	12.5	
8m	a	13.4	14.2		
	b	13.4	13.6		
9m	a	15.1	15.9		
	b	15.1	15.3		
10m	a	16.8	17.7		
	b	16.8	17.0		
11m	a	18.5			
	b	18.5			

- PIR5 ST Zhaga Sensor
- PIR5 HS Zhaga Sensor



Wiring



Maximum ratings

Parameter	Sym	Min	Max	Unit
Supply Voltage	V_{in}	-0.3	30	V DC
Output Current	$I_{out_{max}}$		200	mA
Operating Temp.	T_A	-20	+60	°C
Storage Temp.	T_S	-20	+70	°C
Humidity Degree	Rh	15	85	%

Operating characteristics

Parameter	Sym	Min	Typ	Max	Unit
Supply Voltage Range	V_{in}	12		30	V DC
Current consumption	I_{in}		650		μA
Power Up Time	t_{up}		30		S

Products & Article no.

Article No.	Description
802579	PIR5 ST Zhaga motion Sensor
800044	PIR5 HS Zhaga motion Sensor