



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.

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

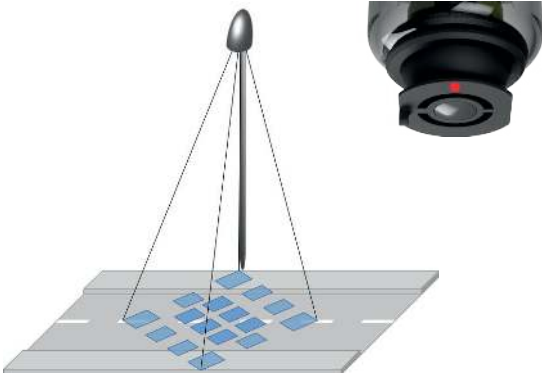
PIR5 HS Zhaga Sensor

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



Installation

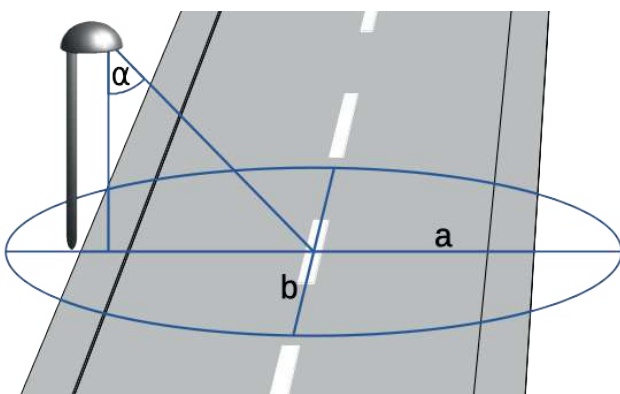
- Rotate the detection field 45°
- The small marking should point towards the middle of the street
- The PIR adapter allows the tilt of the sensor in all directions



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 |