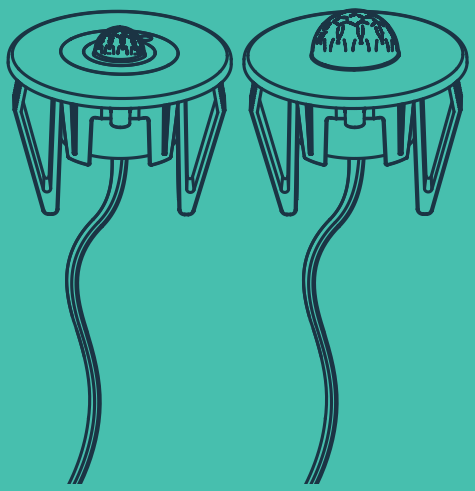
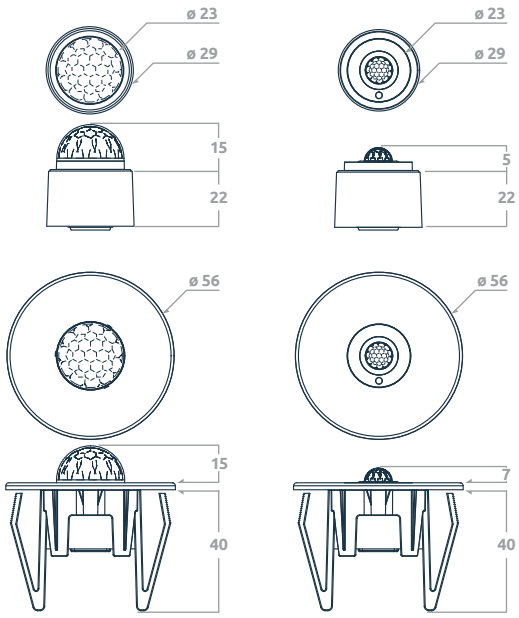
zencontrol

DALI-2 PIR sensor **zc-pir**



## Dimensions

| | | |
|---|---|---|
| **Mounting options** | Recessed or surface mounted *(see accessories)* | |
| **Cut out** | ø 44 mm | |
| **Installation height** | 2.2 - 4 m | |
| **Min. ceiling depth** | 70 mm | |
| **Dimensions** | ø 56 / 55 mm | ø 56 / 47 mm |




## Product range

| Order code | Description |
|---|---|
| **zc-pir-5m** | DALI-2 PIR sensor, 5 m detection area |
| **zc-pir-8m** | DALI-2 PIR sensor, 8 m detection area |

## Specifications

| | |
|---|---|
| **Supply voltage** | 9.5 - 22.5 V dc (supplied from DALI) |
| **Supply current** | 8 mA |
| **Control system** | DALI-2 |
| **Receiver start-up time** | 100ms |
| **Transmitter start-up time** | 1000ms |
| **Sensors** | PIR, ambient light |
| **Operating temperature** | 0 to 45°C |
| **Lens** | Fresnel |
| **Wiring** | 2x0.5 mm² 1.3 m flylead |
| **Ingress protection** | IP20 |
| **Material** | PC (body) |

## Safety information

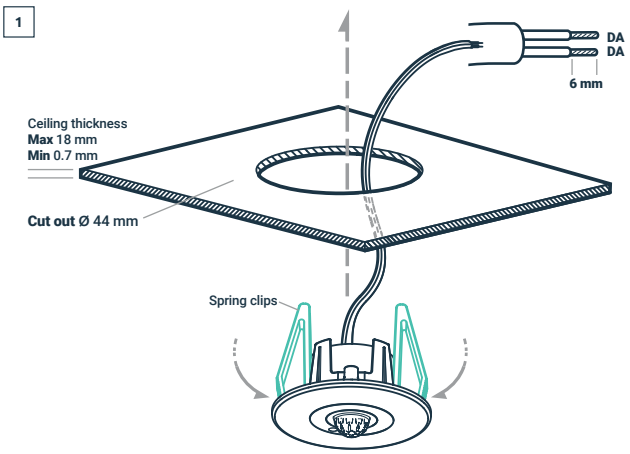
- This product must only be installed by a licensed electrician.
- Before commencing installation turn off and isolate the electrical supply.
- There are no user serviceable parts, attempting to service any part of the product will void the warranty
- The sensor must not be connected to any mains. It is powered directly from the DALI line.
- DALI is not SELV and as such should be treated as LV.
- As the installer, it is your responsibility to ensure you comply to all relevant building and safety codes. Refer to application standards for the relevant rules.
- When the installation is complete, leave this manual with the building's owner for future reference.

## Installation

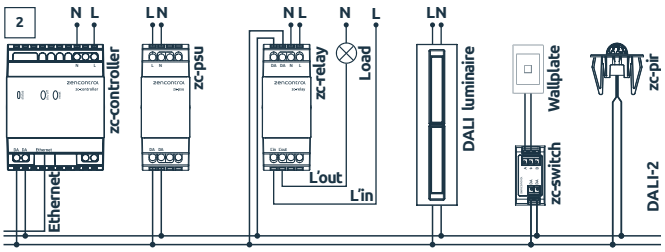
Remove the product from the box and inspect it for any damage. If you believe the product to be damaged or otherwise unsound, ***do not*** install the product. Please return it to the place of purchase for replacement.

If the product is satisfactory, proceed with the installation:

1. Choose a location considering the conditions listed in the ***detection pattern*** section.
2. Drill mounting hole in desired position using 44 mm hole saw.
3. Push the spring clips in as per ***fig 1***. Insert sensor into the desired position and the spring clips will automatically release, ensuring that the sensor is secure and flush up against the ceiling.
4. Connect the 2x0.5 mm² lead to the DALI line ensuring wiring regulations are followed. DALI is not polarised. DALI is not SELV and as such must be treated as LV. ***Do not connect the sensor to any mains voltages.***



## System overview

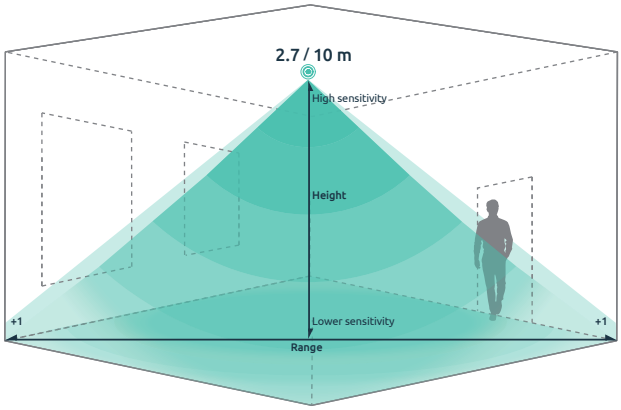



## Usage

| | |
|---|---|
| **Ambient light level sensing** | Measurements between 0 - 10,000 lux<br>Set points and trigger levels controlled by DALI-2 application controller |
| **Time-out actions and events** | Configuration dependent on DALI-2 application controller |

## Detection pattern

| Order code | Range ø | Mounting height |
|---|---|---|
| **zc-pir-5m** | 5 m | 2.7 m |
| **zc-pir-8m** | 8 m | 2.7 - 10 m |




- The detection range of the unit may alter with changes in ambient temperature.
- Position sensor so that movement occurs across the scan area.

  When walking directly towards or away from the sensor the detection range will be reduced.
- Do not direct sensor at reflective surfaces or variable heat sources i.e. windows or air conditioners.
- Do not aim the sensor directly at the sun as this may cause damage to the PIR sensor.

## Accessories range

| Order code | Description |
|---|---|
| **zc-pir-rs-kit** | PIR sensor recess mount kit |
| **zc-pir-cd-kit** | PIR sensor conduit mount kit |
| **zc-pir-sm-kit** | PIR sensor surface mount kit |

## Notice

For more information on compliant software see our website **zencontrol.com**

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Information is subject to change without notice. E&OE



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