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CP electronics GEFL Ceiling Mounted PIR Presence Detectors Installation Guide
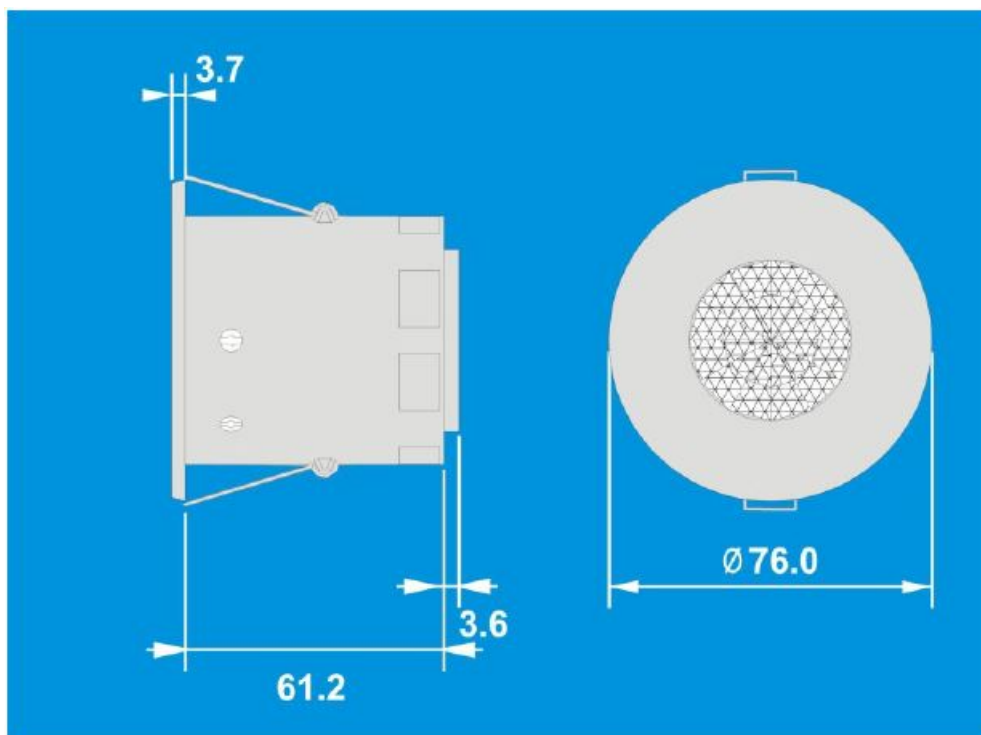
Contents

CP electronics GEFL Ceiling Mounted PIR Presence Detectors

Product Information

- **Product Name:** GEFL & GEFL-IP Recess Ceiling Mounted PIR Presence Detector
- **Dimensions:** Not specified
- **Specification:**
  - **Load Capacity:**
    - 8 Amp resistive and incandescent lighting
    - 4 Amp fluorescent lighting
    - 3 Amp compact fluorescent lighting
    - 3 Amp LED lighting
    - 3 Amp low voltage lighting
    - 3 Amp fans and ventilation equipment
    - Switch SON lighting loads via a contactor
  - **Supply Voltage:** 220-240 Volts AC 50 Hz
  - **Time Out Period:** Adjustable from 10 seconds to 30 minutes
  - **Light Level:** Light to dark
  - **Material Type:** Not specified
  - **Temperature:** Not specified
  - **IP Rating:** Not specified
- **Conformity:** EMC-2014/30/EU, LVD-2014/35/EU
- **Manufacturer:** C.P. Electronics, a business unit of Legrand Electric Limited
- **Address:** Brent Crescent, London, NW10 7XR, United Kingdom
- **Contact Information:**
  - **Tel:** +44 (0) 333 900 0671
  - **Fax:** +44 (0) 333 900 0674
  - **Website:** www.cpelectronics.co.uk
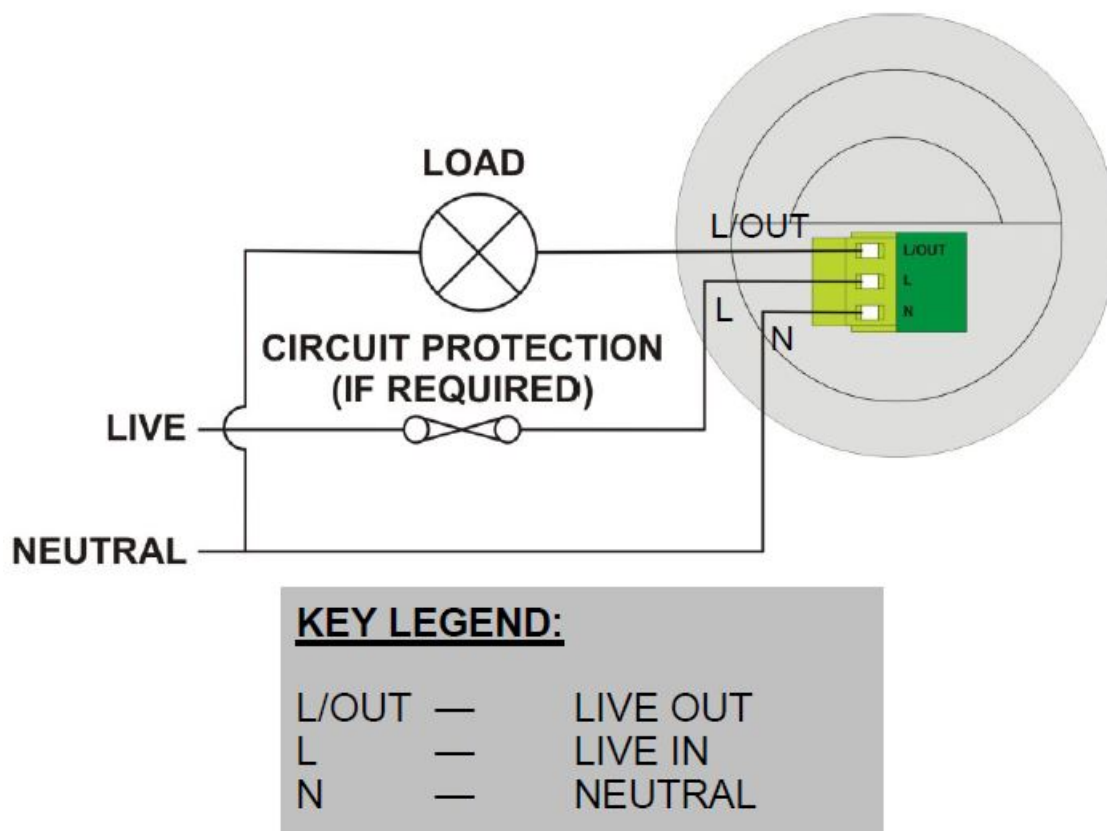 - **Email:** enquiry@cpelectronics.com

Dimensions

Wiring diagram

IMPORTANT NOTICE!
This device should be installed by a qualified electrician in accordance with the latest edition of the IET wiring regulations.

KEY LEGEND:

L/OUT	—	LIVE OUT
L	—	LIVE IN
N	—	NEUTRAL

Description and Operation

The GEFL & GEFL-IP presence detectors are designed to provide automatic control of lighting, heating or ventilation loads. They detect movement using a PIR sensor to turn the load on. When an area is no longer occupied the load will switch off after an adjustable time out period. An adjustable internal light sensor provides
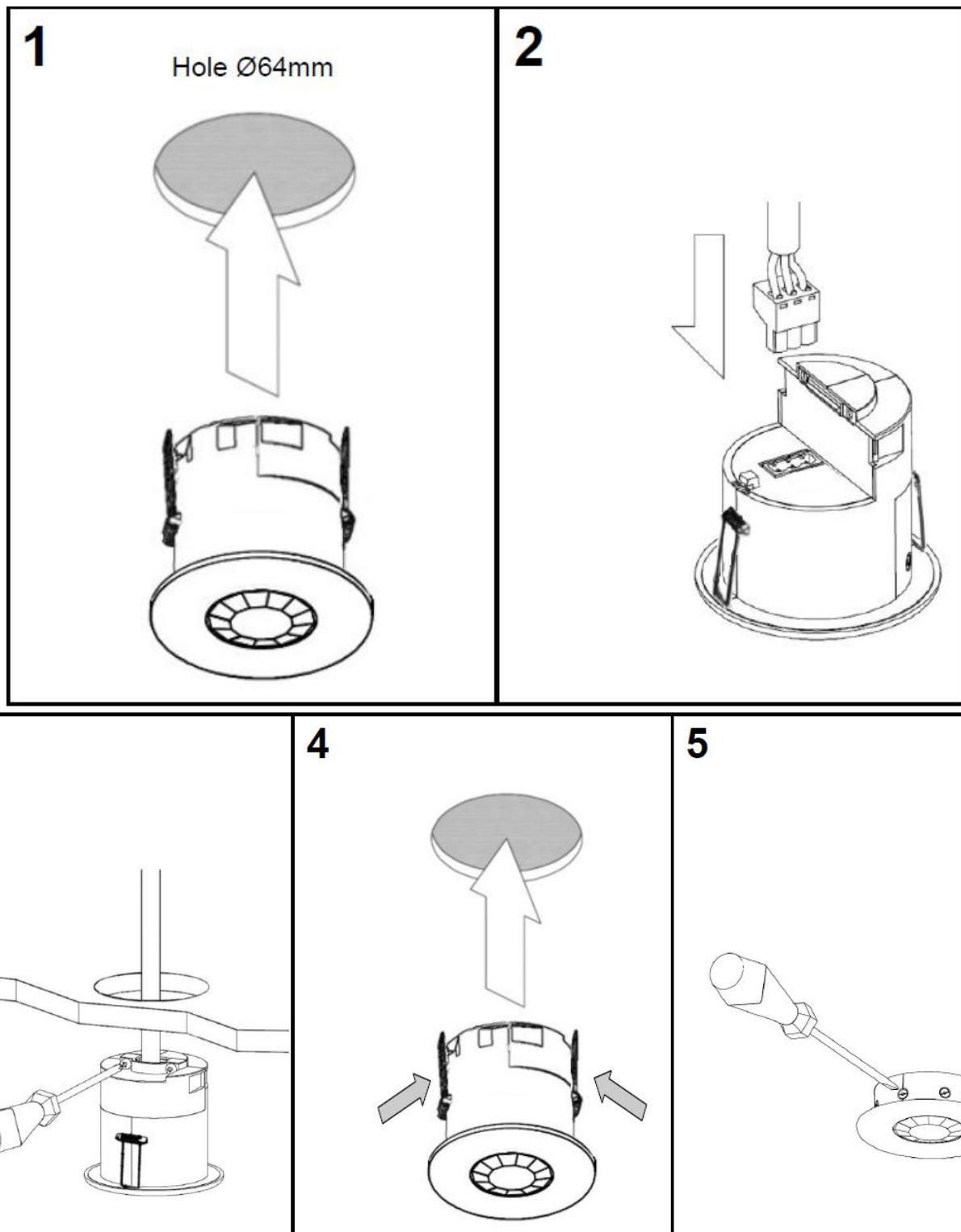
additional energy saving in lighting applications. When an area is occupied lighting is only switched on when the level of natural light is below a preset level. When the unit is first powered up the PIR sensor will always detect immediately regardless of whether the room is occupied.

Installation & Mounting Instructions

ISOLATE supply before starting installation:

FLUSH FIXING
Warning – be careful bending springs when mounting unit.

Do's & Don'ts

- ISOLATE supply before starting installation.
- The detector should be sited so that the occupants of the room fall inside the detection pattern shown overleaf, at a recommended height of 2.8m on the ceiling. Note that the lower the sensor is installed the smaller the detection range will be, subject to the parameters shown on the diagram.
- Avoid direct sunlight entering the sensor.
- Do not site within 1m of forced air heating or ventilation.
- Do not site within 1m of any lighting.
- Do not fix to a vibrating surface.
- Wire the product using the connector using the diagram on the front page.
- To switch from more than one position simply wire two or more units in parallel.
- Set the LUX level to maximum and the time to minimum.
- Power the unit up—the load should come on immediately.
- Vacate the room or remain very still and wait for the load to switch off (should take no more than 2 minutes).
- Check that the load switches on when movement is detected.
- To set the final LUX level wait until the level of natural daylight is just enough that lighting is required. Starting with the LUX control fully clockwise (at minimum), very slowly turn the control anticlockwise until the lights come on. Note that when the LUX control is at maximum then the lights will always come on with occupancy.
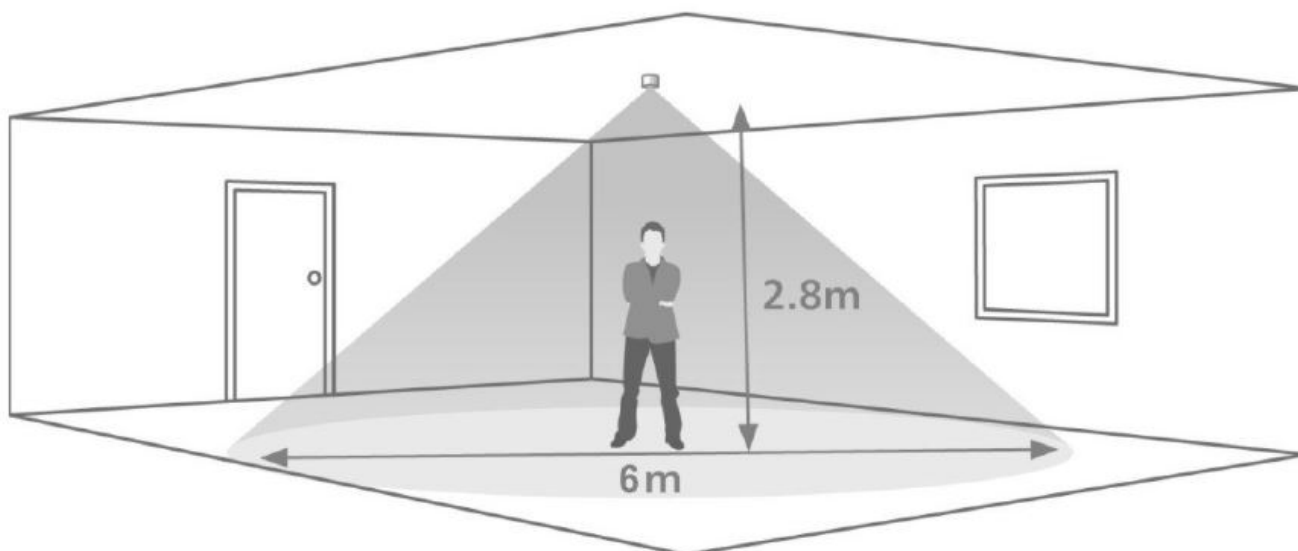- Set the time required.

Troubleshooting

LOAD/LIGHTS DOES NOT COME ON

- Check to see if the live supply to the circuit is good. Isolate supply and place link. Strap across the L and LIVE OUT terminal to turn the load on. Re-energise supply and check load is functioning. On completion isolate supply and remove link and re-energise
- If the supply and wiring are good, check the LUX level setting. Increase the LUX level setting to allow the controller to turn on at higher ambient natural light level.
- If the detection range is smaller than expected, check the diagram above. Rotating the sensor slightly may improve the range.

LOAD/LIGHTS DO NOT GO OFF

- Ensure that the area is left unoccupied for longer than the selected timer setting.
- Make sure that the sensor is not adjacent to circulating air, heaters or lamps.

Detection pattern

Area of high sensitivity / Area of lower sensitivity

Specification

- **LOAD**
  - 8 Amp resistive and incandescent lighting
  - 4 Amp fluorescent lighting
  - 3 Amp compact fluorescent lighting
  - 3 Amp LED lighting
  - 3 Amp low voltage lighting
  - 3 Amp fans and ventilation equipment
  - Switch SON lighting loads via a contactor
- **SUPPLY VOLTAGE** 220-240 Volts AC 50 Hz
- **TIME OUT PERIOD** Adjustable 10s to 30m
- **LIGHT LEVEL** Light to dark
- **TERMINAL** CAPACITY 2.5 mm2
- **MATERIAL** Flame retardant ABS TYPE Class 2
- **TEMPERATURE** 0°C to 35°C
- **IP RATING**
  - GEFL IP40
  - GEFL-IP IP55
- **CONFORMITY**
  - EMC-2014/30/EU
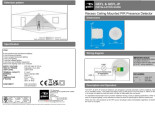 - LVD-2014/35/EU

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Documents / Resources

	CP electronics GEFL Ceiling Mounted PIR Presence Detectors [pdf] Installation Guide GEFL, GEFL-IP, GEFL Ceiling Mounted PIR Presence Detectors, Ceiling Mounted PIR Presence Detectors, Mounted PIR Presence Detectors, PIR Presence Detectors, Presence Detectors, Detectors

References

- **[CP Electronics | Brands | Legrand United Kingdom](#)**