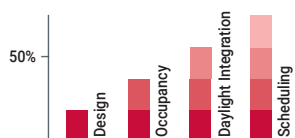# PPAD-C-HB-230V

Ceiling mounted high bay presence/absence detector

Key Features

• PIR Sensor: Detects movement within the unit's detection range, allowing load control in response to changes in occupancy.

• IR Receiver: Receives control and programming commands from an IR (infrared) handset.

• Light Level Sensor: Measures the overall light level in the detection area.

• Status LEDs.

• Power Input & Switched Output Connector: Used to connect mains power to the unit and to connect a switched load.

• Switch Input Connector: Two input terminals can be used to manually override the lights on or off.

Achievable Energy Savings

Code Compliance

• Improves BREEAM & LEED scoring for building sustainability.

• Contributes to energy reduction targets under Climate Change Levy (CCL) and Carbon Reduction Commitment (CRC).

• Qualifies for Enhanced Capital Allowance (ECA) applications.

• Delivers lighting control requirements under UK Building Regs - L2a & L2b and BRE: 498.
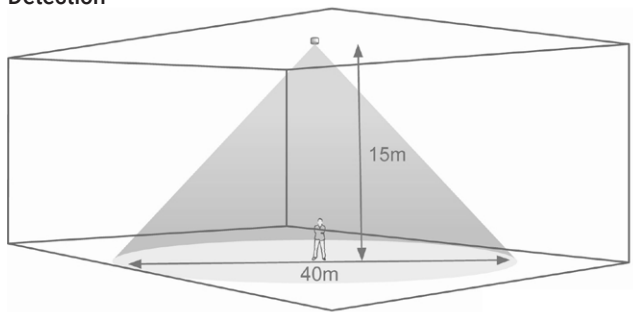
Overview

The PPAD-C-HB-230V is a stand alone mains voltage powered, ceiling mounted PIR (passive infrared) presence/absence detector which provides automatic control of lighting loads with optional manual control. PPAD-C-HB-230V is a high sensitivity PIR detector suitable for high bay applications, such as warehouses and factories, and where high detection sensitivity is needed.

The output channel comprises a mains voltage relay capable of simple on/off switching.

This unit can operate both in presence and absence mode as well as in response to ambient daylight levels.

All functionality is fully programmable using an IR handset (ordered separately).

Detection

Ideal for Warehouse, storage aisle, industrial, atriums, high bay applications.

Maximum recommended mounting height: 15m

Technical Specifications

Weight: 0.2kg complete unit

Supply Voltage: 230VAC +/- 10%

Frequency: 50Hz

Circuit protection: 10A

Maximum Load: 10A of lighting and/or ventilation including incandescent, fluorescent, compact fluorescent, low voltage (by switching the primary of transformer). Derate load for LED in line with the LED lamp manufacturers instructions.

Power consumption: On 822mW, Off 847mW

Terminal Capacity: 2.5mm^2

Temperature: -10ºC to 35ºC

Humidity: 5 to 95% non-condensing

Material (casing): Flame retardant ABS and PC/ABS

Type: Class 2

IP rating: IP40 without gasket. IP65 with gasket fitted (supplied).
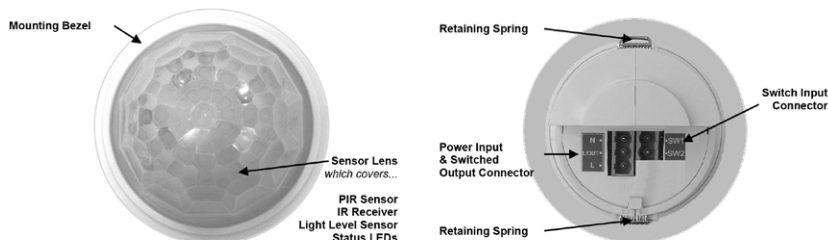
Compliance: EMC-2014/30/EU
                LVD-2014/35/EU
                2016 SI No 1091
                2016 SI No 1101

Accessories

SB-C: Surface Mounting Box

SB-C-EX: Surface Mounting Box Extender

SB-C-IP65:   IP65 Rated Surface Mounting Box

Remote Control Programmers (ordered separately)

HHIR-PROG: Hand held IR programmer control.

HHIR-LCD-PROG: Advanced hand held IR programmer with LCD display.

Sensor functionality

Detection Mode

The Detection Mode can be set to behave in Presence or Absence mode:

- Presence: When movement is detected the sensor will automatically activate. When the area is no longer occupied the sensor will automatically de-activate after an adjustable time period.
- Absence: The sensor is manually activated. When the area is no longer occupied the sensor will automatically deactivate after the adjustable time period has elapsed.
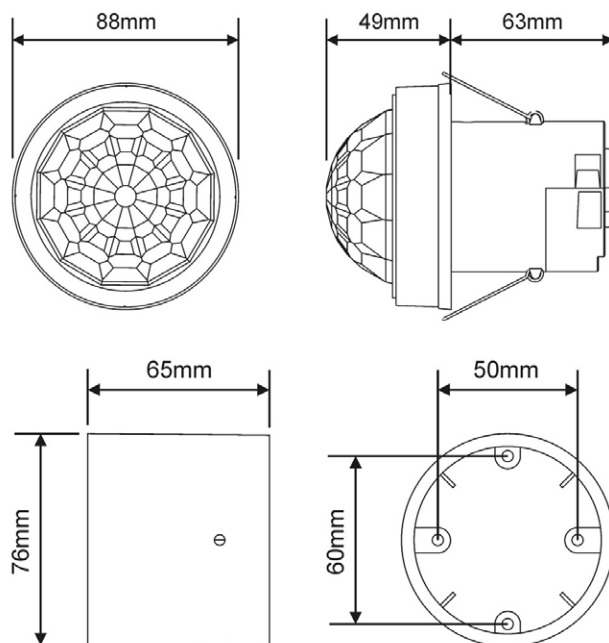
In either case, sensitivity to movement of the PIR sensor can be adjusted using the Sensitivity parameter.

HINT: To assist in setting the Sensitivity, turn on the Walk Test LED which will flash red when movement is detected.

Switch Level On/Off

- Occupancy detection can be made dependent on the ambient light level using the Lux On Level and Lux Off Level parameters.

Dimensions