



INSTALLATION INSTRUCTION ILSEMPIR010 IP65 BATTEN-MOUNT PIR MOTION SENSOR



Thank you for purchasing an INTEGRAL LED product. When installed correctly this unit will provide years of service - with no replacements required. For support or warranty information please see integral-led.com. Always turn off circuit power at the distribution unit before installation and maintenance. Please ensure that the power cannot be connected inadvertently.

General Safety Instructions

- This sensor must be installed by a qualified electrician in accordance with the instructions provided and in compliance with recognised electrical and safety regulations relevant to the country it is being installed.
- This is a Class II sensor. Earth connection is not required.
- The input voltage of this sensor is 220-240VAC, 50/60Hz.
- This sensor is only suitable for batten mount, on batten style luminaires with M20 (20mm diameter) cable/sensor knock-outs and of such type that allows adding a sensor for controlling the load. If in need of making fixing hole(s) by drilling in the luminaire body, check that there are no obstructions hidden behind the mounting surface, such as cables, circuit boards or control gear. Do not use on highly flammable surfaces or in flammable atmosphere.
- This sensor is designed to be installed on battens casings made of solid material with a minimum thickness of 1.5mm.
- This product is IP65-rated and only suitable for Indoor use.
- This product is not suitable for dimming.
- Ensure mains supply is isolated before starting any work.
- Operating Temperature range: -20°C to +40°C. Do not exceed.
- Should the unit malfunction, return to distributor or reseller. No user serviceable parts inside. Do not disassemble or attempt to repair the sensor outside of the installation guidelines.
- Do not install or use the sensor if the housing is found to be broken.

Installation Instructions

- Ensure the AC/mains power is not connected and cannot be reconnected during installation.
- Determine the installation method. Make sure the fixing devices used are adequate for the substrate where the sensor will be fixed.
- For new installations use cutting or drilling tools suitable for the material and carefully cut the required hole to allow installation.
- For refurbishment installations ensure that the existing hole is suitable and strong enough to hold the new sensor. Support the surrounding area or use alternative sensor entry if present.
- Remove the white M20x1.5 plastic nut and transparent rubber washer from the sensor, feed the cables and the sensor end through the suitable sensor entry of the luminaire, reinstall the rubber washer and plastic nut and tighten in place, ensuring the sensor is aimed correctly as per detection area required.
- Complete the wiring as per the wiring diagram provided, switch on the Mains power supply and conduct a function test.

Installation Advice

As the detector responds to changes in ambient temperature, avoid the following situations:

- pointing the detector towards objects with highly reflective surfaces, such as mirrors, windows, etc.
- mounting the detector near heat sources, such as heating vents, air conditioning units, lights, etc.
- pointing the detector towards objects that may move in the wind such as curtains, trees or plants.

Remote control function

1. "OPEN SENSOR MODE" button - sensor will operate in a 24-hour mode: 10 sec delay time, 100% distance, no daylight detection threshold. After initial warm up of 30sec, the load and the indicator light should turn on synchronously. In the case of no induction signal received, the load should stop working within 10±3 seconds, the red indicator light will be off, after the first induction signal is received and over,

the load will enter working state after 10 ± 3 seconds after any further motion detected. In case of any consecutive motion detected in the meantime, Time-Delay is added continually based on the consecutive motion detections after the initial detection - this will restart the hold time from the moment of last motion detection.

After pressing "OPEN SENSOR MODE" button, the following functions can be further selected:

- HOLD TIME ZONE delay: 10S, 30S, 5MIN, 10MIN, 20MIN, 30MIN.
- SENSITIVITY ZONE: LOW button ~ 2M, MEDIUM button ~ 6m, HIGH button ~ 12M.
- "DAYLIGHT LUX ZONE: NIGHT button <10LUX, LOW button ~ 25LUX, MEDIUM button ~ 250LUX, HIGH button ~ 500LUX, DAY/24H button - continuous operation, disregards daylight threshold.

2. Press "OFF POWER LOAD" button turn off the light.

3. Press "P&S MODE" button to activate Photocell mode, the connected luminaire will turn ON and OFF once to indicate the Photocell function is activated. Natural light under 10 LUX will switch the light ON, and natural light over 150 LUX will switch the light OFF. During operation in this mode, the built-in red indicator light will be ON and OFF in 1- second intervals to indicate operation.

Note: Each time a remote button is pressed, the sensor load will toggle between on and off state, indicating that a function has been changed.

The three knobs on the product and the function buttons on the remote control can all set the sensor function, and the setting takes the last operation as the priority (for example, if last setting is done through one of the knobs on the sensor, the target value of the sensor set with the knob will be taken as a priority).

Note: With any press of a button on the remote, the red led light in the sensor lens will flash to indicate a command received.

SPECIFICATION:

Mains Input: 220 -240V/AC, 50/60Hz

IP Rating: IP65

Operating Temperature: -20~+40°

Ambient Light: <10-2000LUX (adjustable)

Time Delay: Min.10sec±3sec

Max.30min±5min

Rated Load:

1200W 
300W 

Detection Range: 360°

Detection Distance: 2-10m max (<24°C, radius, adjustable)

Relative Humidity: <93%RH

Power consumption: approx. 0.5W

Installation Height: 2-6m

Detection Motion Speed: 0.6-1.5m/s

Fig. 01

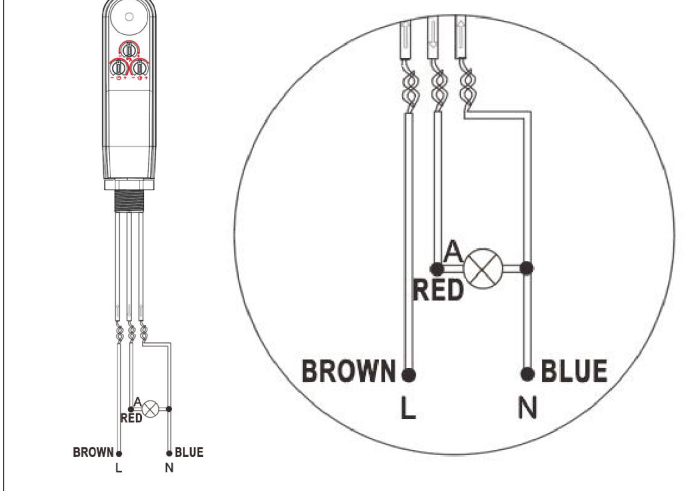


Fig. 02

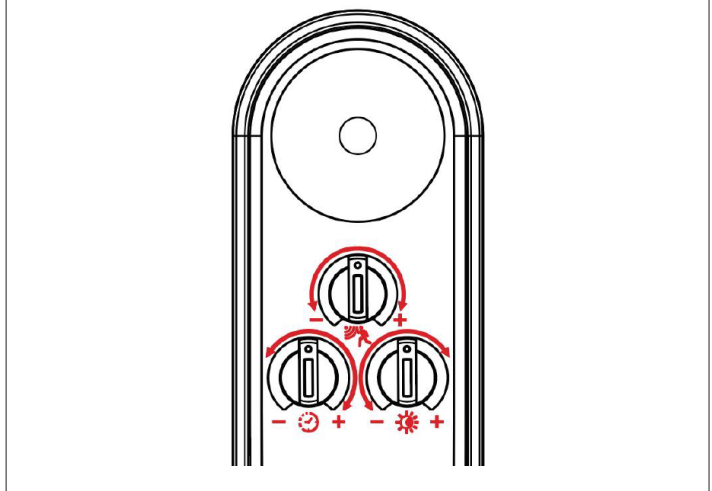
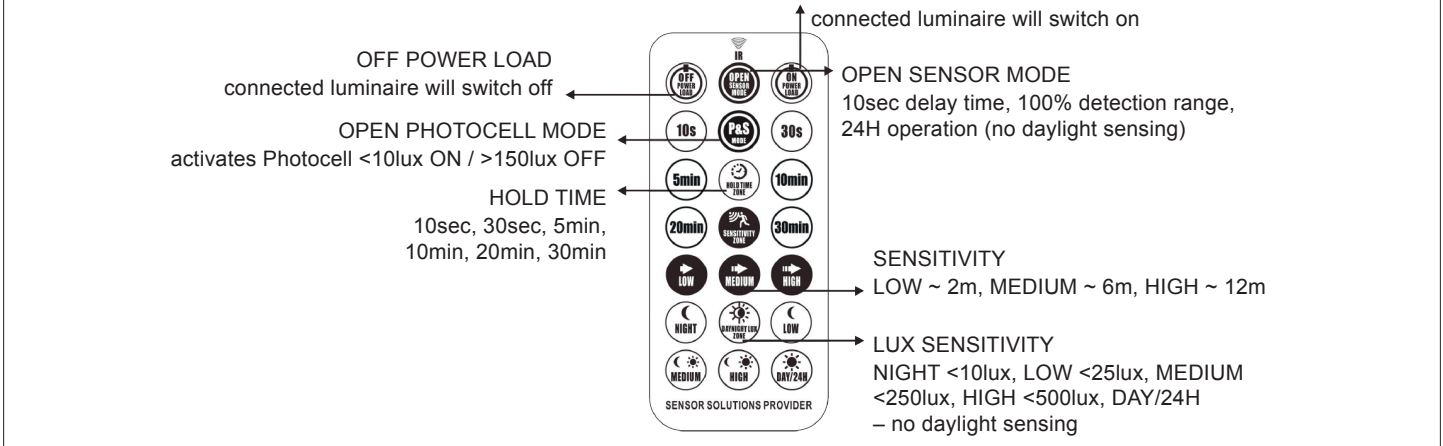


Fig. 03



TEST PROCEDURE:

- Turn the TIME knob clockwise to the minimum (-). Turn the SENSE knob clockwise to the maximum (+). Turn the LUX knob clockwise to the maximum (SUN).
- Switch on the power and allow 30sec for sensor to warm up, during which time sensor and its connected load will remain off. After 30sec, the sensor will turn on the load upon induction signal received (motion detected). If no further motion is registered, the load should switch off within $10\text{sec} \pm 3\text{sec}$.
- Turn LUX knob anti-clockwise to the minimum (-). If the ambient light is more than 10LUX, the sensor and load will not operate. If the ambient light is less than 10LUX (darkness), the sensor will resume motion detection and switch connected load on. Under no induction signal condition, the load should switch off within $10\text{sec} \pm 3\text{sec}$.

Note: When testing in daylight, please turn LUX knob to ☀ (SUN) position, otherwise the sensor will automatically switch off!

TROUBLESHOOTING:

- The load doesn't work:
 - a. Check the Mains power and the load connections.
 - b. Indicator light turns on after sensing motion, but load is off - Please inspect load.
 - c. The indicator light is not on after sensing - Please check if the daylight threshold setting on the dial corresponds to the ambient light.
 - d. Please check if the working voltage corresponds to the power source.
- The sensitivity is poor:
 - a. Please check the ambient temperature.
 - b. Please check for obstructions in front of the sensor, affecting the signal reception.
 - c. Please check if the signal source is in the detection field.
 - d. Please check the installation height.
- The sensor doesn't switch the load off:
 - a. Check for continual signals in the detection field.
 - b. Check if time delay isn't set to the longest, adjust setting accordingly.
 - c. Ensure the power connections correspond to the wiring instructions.
 - d. Check if any objects moving in the wind may be triggering the sensor.
 - e. Check if sensor isn't triggered by nearby heat sources.
 - f. Check surroundings for highly reflective objects.



Warranty/Technical and contact information are all available at www.integral-led.com
Integral LED is a division of Integral Memory plc,
Unit 6 Iron Bridge Close, Iron Bridge Business Park,
London, NW10 0UF, UK
EC/REP: Integral Europe BV, 2801 DG, NL

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