# ISI-HBNDDALI

## Ceiling High Bay (Narrow) Passive Infra Red (PIR) Occupancy Detector & Photocell for DALI ballasts

Input: 100-240 Vac 50/60Hz

PLEASE READ THESE INSTRUCTIONS BEFORE INSTALLING THE PRODUCT
NOTE: ISI-HBNDDALI is only compatible to work with DANLERS enabled app.

This ISI-HBNDDALI High Bay (Narrow Detection) Lighting Control can be mounted directly onto solid ceilings or onto a range of different mounting boxes. Configurable for any room occupancy style, via the DANLERS APP on Google Play or Apple APP Store.

### INSTALLATION

*To be installed by a competent person with reference to BS 7671 or equivalent local standards. If in doubt consult a qualified electrician.*

- Plan where the ISI-HBNDDALI is to be located (see diagram 1). Switch off supply and check for hidden cables and pipes.
- The ISI-HBNDDALI should be connected as shown in diagrams 2 and 3:
  - L Live in.
  - N Neutral in.
  - \+ DALI control line (polarity independent)
  - \- DALI control line (polarity independent)
- Knockout or drill the appropriate holes on the mounting plate for attaching the plate to the ceiling or back box (if applicable). Feed cables through the appropriate (side or rear) entry hole. Screw the back mounting plate to the ceiling or back box via the mounting holes. Wire the cables into the sensor head block terminal. Push the sensor head onto the mounting plate and align the side clips with the slots on the sensor heads.

### OPERATION

To check the operation of the ISI-HBNDDALI:

- Turn on the supply then after 20 seconds if the sensor has recognised movement of a person within its zone of detection the integral red LED on ISI-HBNDDALI will stay illuminated for 4 seconds before the red LED turns off.
- Thereafter, every time movement is detected by ISI-HBNDDALI the integral red LED will stay illuminated for 4 seconds.

The control also features adjustable time out (time lag) control and daylight threshold control which are configured by the DANLERS APP.

### PRECAUTIONS

- Do not place the ISI-HBNDDALI near heat sources, fans or in ventilated ceiling voids.
- Do not place close to, or positioned such that, any light source points directly into the ISI-HBNDDALI.
- Ensure wires and cables are securely held within the connection terminals.
- The ISI-HBNDDALI should be protected by a 5 or 6 Ampere mcb or fuse.
- **Disconnect the ISI-HBNDDALI from the circuit before performing insulation testing of the wiring circuit.**

### TECHNICAL DETAILS

| | |
|---|---|
| **INPUT** | |
| Voltage: | 100 - 240Vac |
| Frequency: | 50/60Hz |
| Max. mains current: | 20mA |
| Standby current: | 18mA |
| **OUTPUT** | |
| Output: | DALI 15VDC |
| Output Current: | 16mA (maximum 8 ballasts) |
| **RADIO TRANSCEIVER** | |
| Operating frequencies: | 2.4... 2,483 GHz |
| Max. output power: | +4 dBm |
| **LUX PARAMETERS** | |
| Range: | 5 - 2000 lux |
| **OPERATING CONDITIONS** Note: The temperature difference between the detection target and the background must be at least 4 °C. | |
| Ambient temperature: | -20... +40 °C (Iout 20mA) |
| Storage temperature: | -25... +75 °C |
| Max. relative humidity: | 0... 80%, non cond. |
| **CONNECTORS** | |
| Terminal block Wire size: | 0.5mm² - 2.5mm² solid or stranded |
| Wire strip length: | 6-7mm |
| Tightening torque: | 0,4 Nm/4 Kgf.cm |
| **MECHANICAL DATA** | |
| Dimensions: | 63mm x 90mm x 90mm |
| Weight: | 105g (unpacked) |
| Degree of protection: | IP20 |
| Protection class: | Built-in Class 2 |
| Material (casing) | Flame-retardant polycarbonate |
| Finish / Colour | Matt /White (RAL 9003) |
| Protection class: | Built-in Class 2 |
| **CONFORMITY AND STANDARDS** | |
| **EMC emission:** EN 301 489-1 V2.2.0, EN 301 489-17 V3.1.1, EN 55032: 2015, EN61000-3-2: 2014, EN61000-3-3: 2013 | |
| **EMC immunity:** EN 301 489-1 V2.2.0, EN 301 489-17 V3.1.1 | |
| **Environment:** Complies with WEEE and RoHS directives | |

### 5 YEAR WARRANTY

ISI-HBNDDALI comes with a 5 year warranty from the date of manufacture and is CE marked.

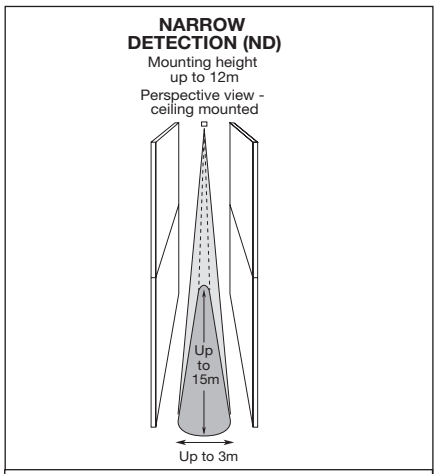


DIAGRAM 1

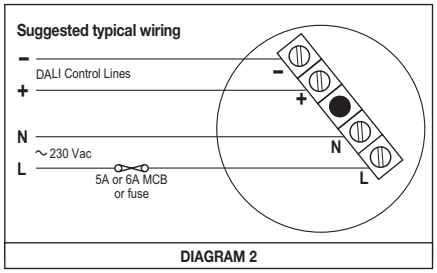


DIAGRAM 2

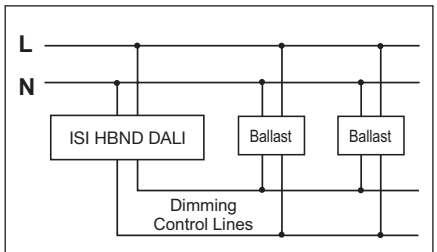


DIAGRAM 3

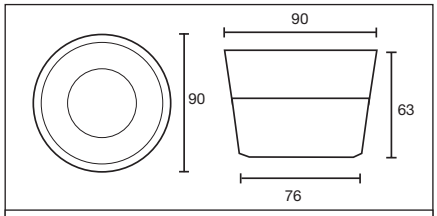


DIAGRAM 4

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