

SENSA MRE DDP HIBAY Passive Infrared detector Art. no. 96601982

Application

The SENSA MRE DDP HIBAY recessed PIR Presence/Absence Detector provides automatic control (on/off switching and dimming) of lighting loads, with optional manual control. It can be used on DSI/DALI digital dimming ballasts over 1 or 2 channels (1 dimming + 1 switching). The dimming channel of the detector can be used to control the light output of luminaires that are fitted with dimming ballasts. The detector measures the overall light level in the detection area and calculates the correct output for the luminaires, to achieve a pre-set lux level (maintained illuminance). The switching channel of the detector can either be used to isolate the supply to the dimming ballasts (saving on the standby current of the ballasts) or to switch a separate channel of standard, non-dimming luminaires. An integral sensitivity adjustment allows the detector to be fine-tuned to its environment. This detector allows flush mounting into a ceiling tile, or surface mounting using a detector back box. The SWITCHLITE MRE SLD HIBAY detector is suitable for HiBay application up to 17 metres.

Design notes

- It is simply converted to a surface version by adding the surface mounting attachment kit SWITCHLITE KIT MSF (96218678), available as accessory.
- To switch from more than one position simply wire two or more units in parallel.
- The detector should be sited so that the occupants of the room fall inside the detection pattern. Note that the lower the sensor is installed the smaller the detection range will be.
- Avoid direct sunlight entering the sensor.
- Do not site within 1m of forced air heating or ventilation, or any lighting.
- Do not fix to a vibrating surface.
- The sensitivity can be reduced via optional remote control (SWITCHLITE CC PROGRAMMER, Art. no. 96240295 during the installation. (Programmer needs to be closer than 3 metres to the detector to control it. For greater distances, use the SWITCHLITE IR LCD PROGRAMMER, Art. no. 96241421).
- Masking shields trimmed available for aisle shaped detection or narrow beam detection.



Functional description

- Passive infrared detection.
- Covers up to 40 metres diameter at a 15m mounting height.
- 17m is the max mounting height.
- Presence/Absence detection adjustable via external switch.
- Dual channel: Switching (10A), DALI /DSI dimming (10 ballasts)
- Recessed design provides minimum intrusion.
- Provides additional building security by switching on when intruders are detected.
- Reducing building running costs.
- Default setting available:
Timeout: 20 min
Lux on Level: 9 (The luminaires will always be switched on at level 9)
Lux off Level: 9 (Level 9 will always keep the luminaires on)
Sensitivity: 9 (1 = low sensitivity; 9 = high sensitivity)
Presence/Absence: Presence
- Basic programming available via optional remote control (SWITCHLITE CC PROGRAMMER, Art. no. 96240295)
E.g. :Minimum ambient light level and time delay before switching luminaires off (1min to 30min) adjustable.
The full list of all adjustable parameters is available in the Installation Instruction.

Mounting and installation instructions

- For a correct installation, please read carefully all the relevant information in the “Design note” paragraph above.
- See wiring options in the installation instructions sheet.
- Fits into 64mm diameter hole in suspended ceilings.
- Insert the mounting clip into the hole and carefully push the two fixings on the arms downwards until they grip firmly to the ceiling, ensuring its retention.
- Detach the mains cover of the sensor, plug in the connector and replace the cover.
- Loosely push the unit into the clip, set timing and light level and fit into ceiling, sliding the detector onto the sleeve.

Technical data

Nominal voltage	230V AC +/- 10%
Switching capacity	Channel 1 (switching) 10A of lighting and or ventilation including incandescent, fluorescent, compact fluorescent, low voltage. Channel 2 (dimming) Maximum number of DSI or DALI ballasts is 10 unless the relay is disabled then it is 20.
Terminals	2.5mm ²
Housing material	Flame retardant ABS, fixing clip polypropylene
Protection class	Class II
Permissible ambient temperature ta	-10—+35 °C
Weight	Approx. 0.1 kg
Protection type	IP40 without gasket, IP44 with gasket

Dimension

