

HIGH BAY DUAL SENSE SENSOR HIM30

Installation and Instruction Manual

1. Technical Specifications

Product type	On/Off control dual sense sensor
Operating voltage	220-240VAC 50/60Hz
Rated load	800VA(Capacitive) 1000W(Resistive)
Power consumption	< 1W
Detection angle	360°
Detection area (Max.)*	Installation Height : 15m (forklift) / 12m (human) Detection Range (Ø) : HF: Ø = 26m (forklift) / 16m (human) PIR: Ø = 24m (forklift) / 20m (human)
Detection range	10% / 50% / 75% / 100%
Hold time	2s / 30s / 1min / 5min / 10min / 15min / 20min / 30min
Daylight threshold	2 ~ 500Lux, Disable
Warming up time	30s
Operating temperature	-35°C ~ +50°C
IP rating	IP65
Sensor mode	HF, PIR, HF+PIR, HF / PIR

2. Rotary Switch Settings

A rotary switch is built inside the sensor for scene selection / fast programming. Total of 16 channels available:

→ Rotary switch preset (Please see the location in 2. Installation)

Channel	Detection range	Hold-time	Daylight sensor
0	100%	5s	Disable
1	100%	1min	2Lux
2	100%	5min	10Lux
3	100%	5min	30Lux
4	100%	5min	10Lux
5	100%	5min	30Lux
6	100%	5min	Disable
7	100%	10min	2Lux
8	100%	10min	10Lux
9	100%	10min	30Lux
A	100%	10min	Disable
B	75%	10min	30Lux
C	50%	10min	10Lux
D	100%	30min	50Lux
E	100%	30min	Disable
F	100%	5s	2Lux

Note: settings can also be changed by remote control HRC-11. The last action controls.

3. Functions

3.1 On/Off Control

This sensor is a motion switch, which turns on the light upon detection of motion, and turns off after a pre-selected hold-time when there is no movement. A daylight sensor is also built in to prevent the light from switching on when there is sufficient natural light.

3.2 Lux Off Function

The built-in daylight sensor can read ambient natural light and switch off the fixture automatically whenever artificial light is unnecessary (natural light lux level exceeds daylight threshold).

Note: if the stand-by time is preset at "+∞", the fixture never switches off even when natural light is sufficient.

3.3 Load Indication

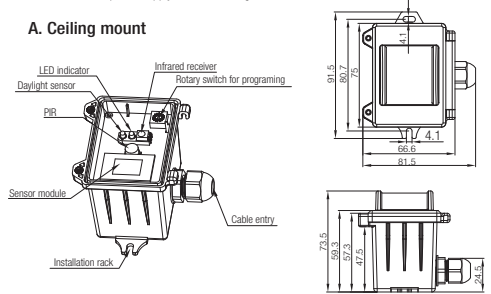
The light will flash ONCE rapidly after receiving the command from the remote controller.
Note: There is no load indication (the light will not flash) when button ON/OFF, POWER 100% or POWER 80% is pressed.

4. Installation

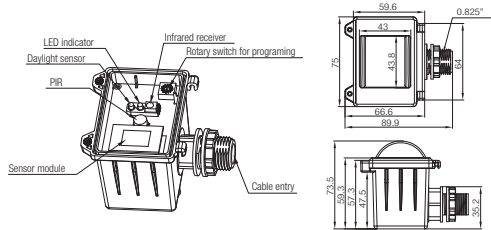
⚠ Warnings:

1. Installation of the sensor involves connecting it to the mains supply. This work must be carried out by a specialist in accordance with electrotechnical regulations.
2. Disconnect power supply before installing.

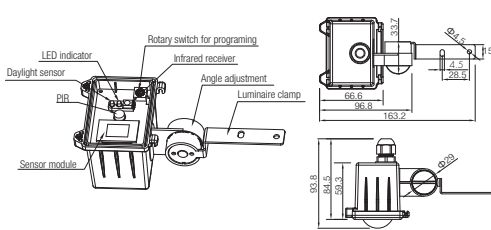
A. Ceiling mount



B. Screw to the Luminaire by conduit

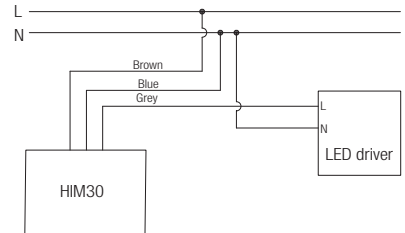


C. Attach to the shade by clamp



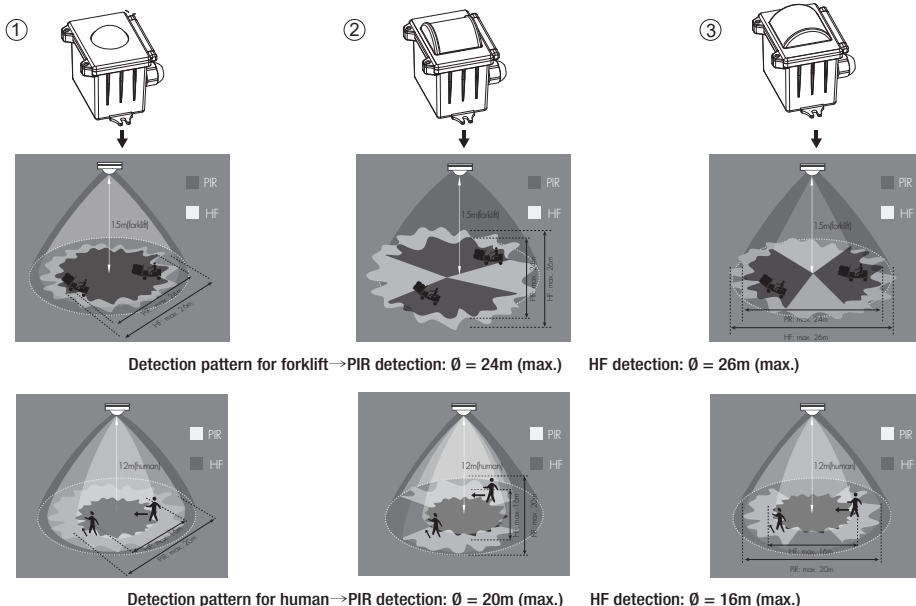
Note: We recommend the mounting distance between sensor to sensor should be more than 2m to prevent sensors from false-triggering.

5. Wiring Diagram

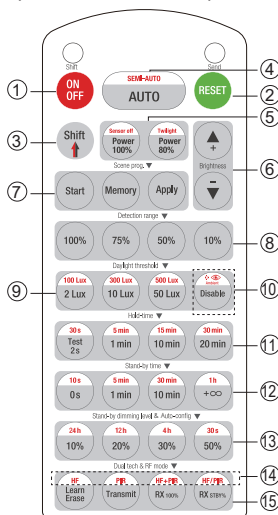


6. Three Options for PIR Lens and Detection Patterns (End user can choose the suitable lens in real application for various requirements)

* For single person walking across, the detection range is reduced by 1/3.



7. Descriptions of the Button Functions (remote control HRC-11)



Permanent ON/OFF [button ①]

Press button ① to select permanent ON or permanent OFF mode.
* Press button ② to resume automatic operation.
The mode will change to AUTO Mode after power failure.

RESET [button ②]

Press button ②, all settings go back to the rotary switch settings.

Shift [button ③]

Press button ③, the LED on the top left corner is on for indication.
All values / settings in RED are valid for 20 seconds.

Auto Mode [button ④]

Press button ④ to initiate automatic mode. The sensor starts working and all settings remain as before the light was switched ON/OFF.
Note: the function of Semi-auto is disabled.

Power output [button ⑤]

These two buttons are disabled.

Brightness +/- [button ⑥]

These two buttons are disabled.

Scene prog. [zone ⑦] (One-key-commissioning)

- Press button "Start" to program.
- Select the buttons in ⑧ "Detection range", ⑨ "Daylight threshold", ⑩ "Hold time", ⑪ "Stand-by time", ⑫ "Stand-by dimming level" to set all parameters.
- Press button "Memory" to save all the settings programmed in the remote control.

- Press button "Apply" to set the settings to each sensor unit(s).

For example, to pre-set detection range 100%, daylight threshold Disable, hold time 5min, the steps should be as follows:
Press button ③ Start, button ④ 100%, ⑤ Disable, ⑥ Shift, ⑦ 5min, ⑧ Memory. By pointing to the sensor unit(s) and pressing ⑨ Apply, all settings are passed on the sensor(s).

Detection range [zone ⑧]

Press buttons in zone ⑧ to set detection range at 100% / 75% / 50% / 10%.

Daylight threshold [zone ⑨]

Press buttons in zone ⑨ to set the daylight sensor at 2Lux / 10Lux / 50Lux / 100Lux / 300Lux / 500Lux or Disable.

Note: To set daylight sensor at 100Lux / 300 Lux / 500Lux, press button ③ Shift at first.

Ambient daylight threshold [button ⑩]

- Press button ⑩ Shift, the red LED is on for indication.
- Press button ⑩, the ambient lux level is sampled and set as the new daylight threshold.

Hold time [zone ⑪]

Press buttons in zone ⑪ to set the hold time at 2s / 30s / 1min / 5min / 10min / 15min / 20min / 30min.

Note: 1. To set hold-time at 30s / 5min / 15min / 30min, press button ③ Shift at first.

- 2s is for testing purpose only, stand-by period and daylight sensor settings are disabled in this mode.

* To exit from Test mode, press button ② or any button in zone ②.

7. Additional Information / Documents

- Regarding precautions for microwave sensor installation and operation, please kindly refer to www.hytronik.com/download ->knowledge ->Microwave Sensors - Precautions for Product Installation and Operation
- Regarding precautions for PIR sensor installation and operation, please kindly refer to www.hytronik.com/download ->knowledge ->PIR Sensors - Precautions for Product Installation and Operation
- Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy

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