HIGH BAY DUAL SENSE SENSOR HIM31

Installation and Instruction Manual

1. Technical Specifications

Product type	Tri-level control dual sense sensor		
Operating voltage	220-240VAC 50/60Hz		
Rated load	800W(Capacitive)		
Device consumption	1000W(Resistive) < 1W		
Power consumption			
Detection angle	360°		
Detection area (DxH)	18 x 15m (Maximum)		
Detection range	10% / 50% / 75% / 100%		
Hold time	2s / 30s / 1min / 5min / 10min / 15min / 20min / 30min		
Stand-by time	0s / 10s / 1min / 5min / 10min / 30min / 1h / + ∞		
Stand-by dimming level	10% / 20% / 30% / 50%		
Daylight threshold	2 ~ 500Lux, Disable		
Warmming up time	30s		
Operating temperature	-30°C ~ +50°C		
IP rating	IP65		
Sensor mode	HF, PIR, HF+PIR, HF / PIR		

3. 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	Stand-by time	Stand-by dimming level	Daylight threshold
0	100%	5s	10s	10%	Disable
1	100%	1min	5min	10%	2Lux
2	100%	5min	10min	10%	10Lux
3	100%	5min	30min	10%	30Lux
4	100%	5min	0s	Disable	10Lux
5	100%	5min	+∞	10%	30Lux
6	100%	5min	+∞	30%	Disable
7	100%	10min	10min	10%	2Lux
8	100%	10min	30min	10%	10Lux
9	100%	10min	+∞	10%	30Lux
A	100%	10min	+00	30%	Disable
В	75%	10min	+∞	10%	30Lux
С	50%	10min	+∞	10%	10Lux
D	100%	30min	+∞	10%	50Lux
E	100%	30min	+∞	30%	Disable
F	100%	5s	10s	10%	2Lux

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

4. Functions

4.1 Tri-level Control (Corridor Function)

Hytronik builds this function inside the motion sensor to achieve tri-level control, for some areas it requires a light change notice before switch-off.

It offers 3 levels of light: 100%-->dimmed light-->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.

4.2 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 fux level exceeds daylight threshold). Note: if the stand-by time is preset at "+ ∞ ", the fixture never switches off even when natural light is sufficient.

4.3 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.

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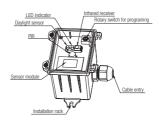
2. Installation

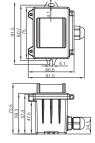
A Warnings:

 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.

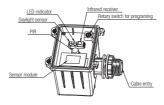
2. Disconnect power supply before installing.

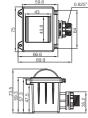
A. Ceiling mount



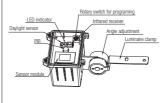


B. Screw to the Luminaire by conduit



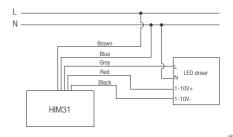


C. Attach to the shade by clamp





5. Wiring Diagram

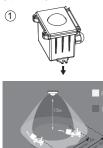


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6. Three Options for PIR Lens and Detection Patterns (End user can choose the suitable lens in real application for various requirements)

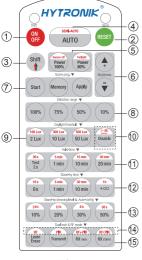
(2)

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



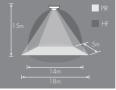
PIR detection: H x D:15 x 18m (max.) HF detection: H x D:15 x 14m (max.)

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



HRC-11





PIR detection: L x W x H:18 x 5 x 15m (max.) HF detection: H x D:15 x 14m (max.)

Permanent ON/OFF [button]

Press button ① to select permanent ON or permanent OFF mode. * Press button ②/③ to resume automatic operation. The mode will change to AUTO Mode after power failure.

RESET [button @]

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)]

Press button (5), the light output shifts between 80% and 100%. Note: the function of "Sensor off" and "Twilight" are disabled.

Brightness +/- [button 6

Press button $\textcircled{\sc b}$ to adjust the light brightness between 10%~100% .

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

1. Press button "Start" to program

- Select the buttons in
 ^(*) "Detection range",
 ^(*) (^(*)) Caylight threshold", ^(*) "Hold time",
 ^(*) "Stand-by time",
 ^(*) "Stand-by dimming level" to set all parameters.
- Press button "Memory" to save all the settings programmed in the remote control.
- 4. 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, stand-by time +∞, stand-by dimming level 30%, the steps should be as follows:
- Press button () Start, button () 100%, () Disable, () Shift, () 5min, () Shift, () $+\infty$, () 30%, () Memory. By pointing to the sensor unit(s) and pressing () Apply, all settings are passed on the sensor(s).

Detection range [zone (8)]

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



(3)



PIR detection: L x W x H:5 x 18 x 15m (max.)

HF detection: H x D:15 x 14m (max.)

Daylight threshold [zone (9)]

Press buttons in zone () 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(Schift at first.

Ambient daylight threshold [button (1)]

1. Press button ③ Shift, the red LED is on for indication.

2. Press button (), the ambient lux level is sampled and set as the new daylight threshold.

Hold time [zone ①]

Press buttons in zone () 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 ③Shift 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 (1) .

Stand-by time [zone (2)]

Press buttons in zone c_0^{0} to set the stand-by period at 0s / 10s / 1min / 5min / 10min / 30min / 1h / + ∞ . Note: "0s" means on/off contol, "+ ∞ " means bi-level control, 100% on when motion detected, and remains at the stand-by dimming level when no presence is detected after hold-time.

Stand-by dimming level [zone (3)]

Press buttons in zone 0 to set the stand-by dimming level at 10% / 20% / 30% / 50%.

Note.the function of 24h / 12h / 4h / 30s are disabled.

Dual tech [zone 🕼]

Press buttons in zone () to select sensor technology. HF+PIR: Light is on when both HF and PIR sensors are activated. HF/PIR: Light is on when HF or PIR sensors are activated.

RF mode [zone (5)]

All buttons in zone (5) are disabled

8. Trouble Shooting

of House choosing					
MALFUNCTION CAUSE REMEDY	CAUSE	REMEDY			
	Incorrect daylight threshold setting	Adjust daylight threshold setting			
The fixture does not light up	Faulty fixture	Replace fixture			
	No power supply	Check power to sensor			
	Detection zone not targeted	Check detection area setting			
The fixture is always on	Continous movement in the detection zone	Check detection area setting			
The fixture is on when it should not	Sudden change in temperature due to weather (wind, rain, snow) or air expelled from fans, open windows	Adjust zone, change installation site			

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