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 = 24m (forklift) / 14m (human)	
	PIR: $\emptyset = 24m$ (forklift) / 20m (human)	
Detection range	10% / 50% / 75% / 100%	
Hold time	2s / 30s / 1min / 5min / 10min / 15min / 20min / 30min	
Daylight threshold	2 ~ 500Lux, Disable	
Warmming up time	30s	
Operating temperature	-20°C ~ +50°C	
IP rating	IP65	
Sensor mode	HE, PIB, HE+PIB, HE / PIB	

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	
А	100%	10min	Disable	
В	75%	10min	30Lux	
С	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 "+oo", the fixture never switches off even when natural light is sufficient.

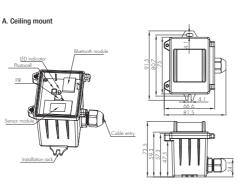
3.3 Load Indication

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.

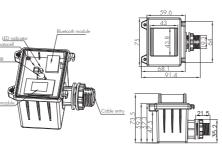
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4. Installation

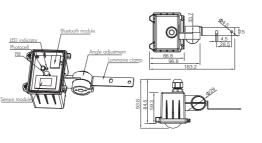
A Warnings: 1. Installation of the sensor involves connecting it to the mains supply. This work must be carried out by a specialist in accordance with electrotechnical regulations. 2. Disconnect power supply before installing.



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.

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5. 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.

E F



PIR detection: $\emptyset = 24m$ (max.) HF detection: Ø = 24m (max.)

HF detection: $\emptyset = 14m$ (max.)

PIR detection: $\emptyset = 20m (max.)$

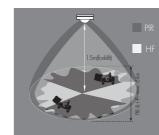
6. Wiring Diagram

Detection pattern for forklift

Detection pattern for human

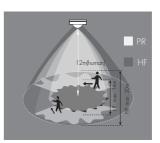




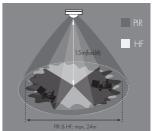


PIR detection: $\emptyset = 24m (max.)$

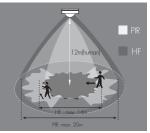
HF detection: $\emptyset = 24m$ (max.)



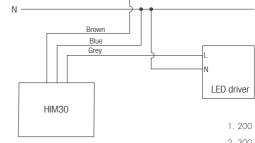
HF detection: $\emptyset = 14m$ (max.) PIR detection: $\emptyset = 20m (max.)$



PIR detection: $\emptyset = 24m$ (max.) HF detection: $\emptyset = 24m$ (max.)



HF detection: $\emptyset = 14m$ (max.) PIR detection: $\emptyset = 20m$ (max.)



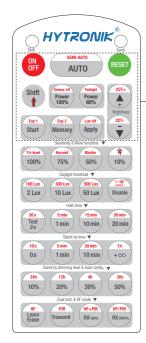
1. 200 metres (total) max. for 1 mm² CSA (Ta = 50°C) 2. 300 metres (total) max. for 1.5mm² CSA (Ta = 50°C)

----This product should be installed by a qualified electrician.



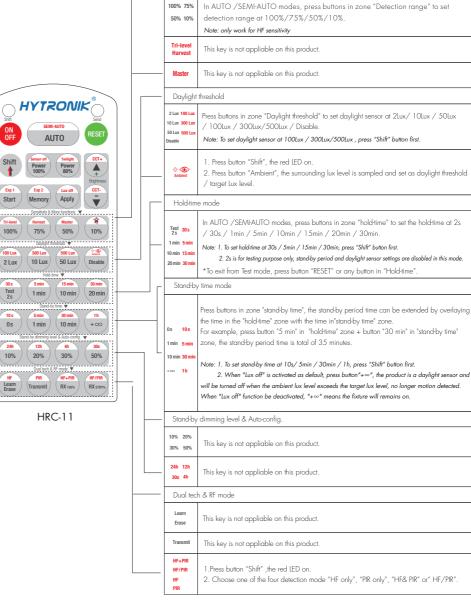
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HRC-11

ON OFF	Press button "ON/OFF" to select permanent ON or permanent OFF mode. * Press button "AUTO"/ "RESET" to exit this mode.
	Press button "RESET", perform DIP Switch/Rotary Switch settings.
RESET	*The default settings are: Detection range 100%; Hold-time 5min; Daylight threshold disable; HF/PIR detection mode.
Shift	Press button "Shifi", the LED on the top left corner is on to indicate mode selection. All values / settings in RED are valid for 20 seconds.
AUTO	Press button "AUTO" to initiate automatic mode. The sensor starts working and all settings remain as before the light is switched ON/OFF;
SEMI-AUTO	Press button "AUTO" to initiate automatic mode. The sensor starts working and all settings remain as before the light is switched ON/OFF. Note: "Semi-auto" function is disabled.
Power 100% 80%	This key is not appliable on this product.
Sensor off Twilight	This key is not appliable on this product.
۲	This key is not appliable on this product.
CCT+ CCT-	This key is not appliable on this product.
	1. Press button "Start" to program. 2. Select the buttons in "Detection range", "Daylight threshold", "Hold-time", "Stand-by time", to set all parameters. 3. 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).
Start Memory Apply	For example, to set detection range 100%, daylight threshold Disable, hold-time 5min, stand-by time +∞, the steps should be: Press button "Start", button "100%", "Disable", "Shift", "5min", "Shift", "+∞", "Memory". By pointing to the sensor unit(s) and pressing "Apply", all settings are passed on the sensor(s).
	The "Lux off" function is activated as default. When the ambient lux level exceeds the target level continuously for more than 5 minutes, the lights will be turned off.
Lux off	In AUTO /SEMI-AUTO/Twilight modes, to disable "Lux off": 1. Press "Shift" button first, the red LED on. 2. Press "Lux off" button, the "Lux Off" function will be deactivated. The lights will not turn off even when the ambient lux level exceeds the target lux level but will dim down the brightness to the stand-by time level. For Sensor LED indicator references: 1.Fast flash 1s, "Lux off" function activated. 2.Remains on 2s, "Lux off" function deactivated.
Exp 1 Exp 2	"Exp" refer to Expansion, these two buttons are reserved functions and pending future development.



Sensitivity & More functions

8. Additional Information / Documents

Pregarding 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 Pytronik standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy



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