Installation and Instruction Manual



Flush Mount PIR Motion Sensor HIR

1. Technical Specifications

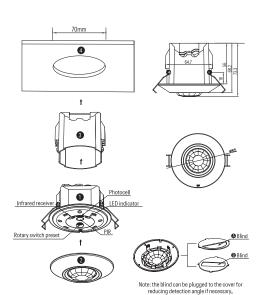
Product type	Daylight harvest PIR motion sensor		
	, ,		
Operating voltage	220~240VAC 50/60Hz		
Rated load	1200W (resistive); 400VA (capacitive)		
Power consumption	< 1W		
Warming up time	30s		
Detection area (DxH)	8 x 3m (Minimum)		
Mounting height	5m (Maximum)		
Detection range	10% / 50% / 75% / 100%		
Hold time	2s / 30s / 1min / 5min / 10min / 15min / 20min / 30min		
Stand-by dimming level	10% / 20% / 30% / 50%		
Daylight threshold	50 ~ 500Lux, Disable		
Detection angle	360°		
Operating temperature	-20°C ~ +50°C		

2. Installation

⚠ 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 supply before installing.



(1) Sensor inset

(2) Lens pluggable

(3) Protection cover (covers the high-voltage terminals).

(4) Ceiling (drill hole Φ 70mm).

3. Rotary Switch Settings

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



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

Channel	Detection range		Daylight sensor
0	100%	5s	Disable
1	100%	5min	Disable
2	100%	5min	30lux
3	100%	5min	100lux
4	100%	5min	300lux
5	100%	10min	Disable
6	100%	10min	30lux
7	100%	10min	100 Jux
8	100%	10min	300lux
9	100%	15min	Disable
A	100%	15min	30lux
В	100%	15min	100 Jux
C	100%	15min	300lux
D	100%	20min	Disable
E	100%	1min	Disable
F	100%	5s	2lux

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

4. Functions

4.10n/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.

4.2 Intelligent Photocell

The built-in photocell will also automatically turn off the light when the ambient natural light exceeds the programmed lux level for more than 5min, regardless of whether motion is detected or not.

4,3 Semi-auto Function (Absence Detection)

The motion sensor is employed, but only activated on the manual press of the push switch, light keeps on in the presence, dims down in the absence, and eventually switches off automatically in the long absence.

4.4 Zero-cross Relay Operation

Designed in the software, sensor switches on/off the load right at the zero-cross point, to ensure that the in-rush current is minimised, enabling the maximum lifetime of the relay.



4.5 Loop-in and Loop-out Terminal

With double N and one L terminal makes it easy for wire loop-in and loop-out, and saves the cost of terminal block and assembly time.

4.6 Manual Override

With the help of push-switch, this sensor maybe over-ridden by the end-users to switch on/off the lights manually, or adjust the light brightness during motion hold-time. This makes the product more user-friendly and offers more options to fit for extra-ordinary demands.

* Short push (<1s): on/off function;

 $0N \Rightarrow 0FF$: the light turns off immediately and cannot be lighten for a certain time (equals to hold time preset) even there is movement is detected. After this period, the sensor goes back to auto sensor mode.

OFF \Rightarrow 0N: the light turns on 100% and goes to auto sensor mode, even when ambient

Lux level exceeds the daylight threshold.

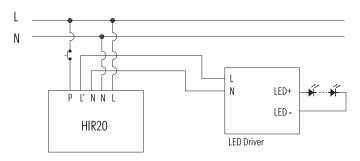
 * Long push (>1s): adjust the target lux level by turning the light up or down. Both the

adjustment on remote control and push switch can overwrite each other,

the last adjustment remains in memory.

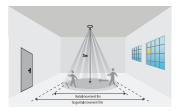
* If no end-user adjustment is desired, simply leave this terminal disconnected.

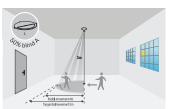
5. Wiring Diagram

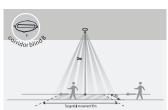


---This product should be installed by a qualified electrician.

6. Detection Pattern



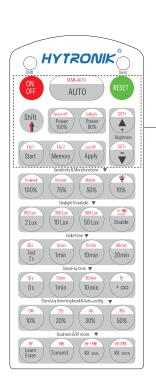




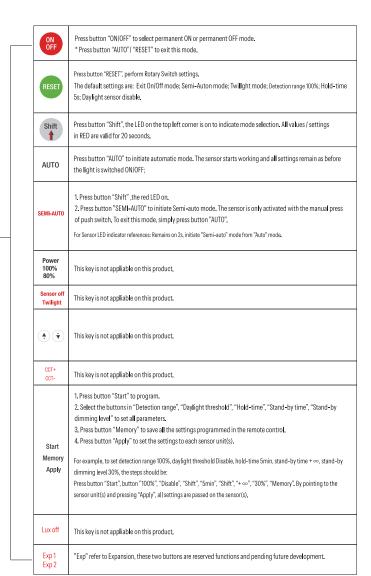


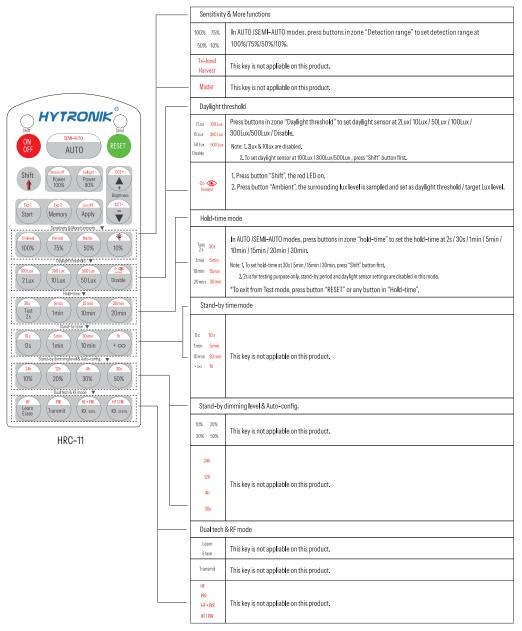


7. Description of the Button Functions (remote control HRC-11)



HRC-11





Additional Information / Documents

- 1. To learn more about detailed product features/functions, please kindly refer to https://hytronik.com/product/hbir29
- 2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to https://hytronik.com/service/downloads (Bluetooth Products Precautions for Product linstallation and Operation)
- 3. Regarding precautions for PIR Sensors installation and operation, please kindly refer to https://hytronik.com/service/downloads (PIR Sensors Precautions for Product Installation and Operation)
- 4. Data sheet is subject to change without notice. Please always refer to the most recent release on https://hytronik.com/products/motion-daylight-sensors
- 5. Regarding Hytronik standard guarantee policy, please kindly refer to https://hytronik.com/service/downloads (Guarantee Conditions document)





