Installation and Instruction Manual

HYTRONIK

FLUSH MOUNT PIR MOTION SENSOR

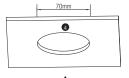
1. Technical Specifications

Product type	Daylight harvest PIR motion sensor		
Operating voltage	220~240VAC 50/60Hz		
Rated load	1600W (resistive); 800VA (capacitive)		
Power consumption	< 0.5W		
Detection angle	360°		
Detection area (DxH)	10 x 3m (Tangential)		
Mounting height	5m (Maximum)		
Detection range	10% / 50% / 70% / 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	50 ~ 500Lux, Disable		
Warming up time	30s		
Operating temperature	-20°C ~ +50°C		

2. 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 supply before installing.













the 1-10V terminals exposed). (4) Ceiling (drill hole Ø 70mm).

(1) Sensor inset

(2) Lens pluggable (3) Protection cover (covers the



high-voltage terminals, and leaves

Note: the blind can be plugged to the cover for reducing detection angle if necessary.

3. Rotary Switch Settings

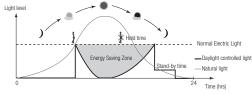
	is built inside the / fast programm ailable :		ALGELO		ch preset (Please ation in 2. Installation)	
Channel	Detection range	Hold time	Stand-by time	Stand-by dimming level	Daylight threshold	
0	100%	5s	10s	10%	Disable	
1	100%	1min	5min	10%	50Lux	
2	100%	5min	10min	10%	50Lux	
3	100%	5min	+∞	10%	75Lux	
4	100%	5min	+00	10%	100Lux	
5	100%	5min	+∞	30%	200Lux	
6	100%	10min	30min	10%	50Lux	
7	100%	10min	+00	10%	75Lux	
8	100%	10min	+00	10%	100Lux	
9	100%	10min	+∞	30%	200Lux	
A	100%	20min	1h	10%	100Lux	
В	100%	20min	+∞	30%	200Lux	
С	100%	30min	+00	10%	100Lux	
D	100%	30min	+∞	30%	200Lux	
E	100%	30min	+00	50%	400Lux	
F	100%	5s	10s	10%	100Lux	
ote: settings can also be changed by remote control HRC-11. The last action controls.						

4. Functions

No

4.1 Daylight Harvest (Daylight Regulating)

Daylight sensor measures the available surrounding natural light, calculates how much electrical light is needed to reach the total lux expected. The demand is given to the LED driver by 1-10V signal, so as to deliver the needed amount of electric light.



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 unneeded (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

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 Ambient Daylight Threshold

Switch the power supply to the sensor two times within 2 seconds, the ambient lux level is sampled and set as the new daylight threshold. Both the settings on rotary switch and the ambient lux level sampled can overwrite each other. This feature enables the daylight sensor to be commissioned to the environment in which it is installed. The last adjustment remains in memory.

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4.5 8H Manual ON Mode For LED Lamp

Turn off/on the power supply three times within 3 seconds, the light will be turned on for 8 hours, even there is no motion detected, then go back to sensor mode automatically. Note: this 8H manual on mode can be cancelled by turning off/on the power supply one time within 1 second.

4.6 Manual Override

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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.

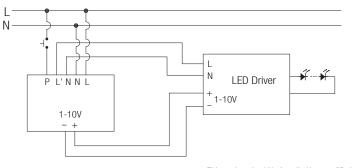
* Short push (<1s): on/off function;

- ON -> OFF: 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. $\mathsf{OFF} \rightarrow \mathsf{ON}$: 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.

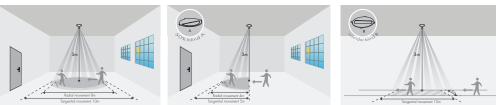
* If no end-user adjustment is desired, simply leave this terminal disconnected.

5. Wiring Diagram



-This product should be installed by a qualified electrician.

6. Detection Pattern



MALFUNCTION CAUSE REMEDY	CAUSE	REMEDY	
	Incorrect daylight threshold setting	Adjust daylight threshold setting	
The fixture does not light up	Faulty fixture	Replace fixture	
me intere does not light up	No power supply	Check power to sensor	
	Detection zone not targeted	Check detection area setting	
The fixture is always on	Continued 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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AUTO

Power 80%

Lux off

Power 100%

Exp 2

Sensitivity & More functions

100% / 75% / 50% /

(Memory) (Apply

Harvest Master

300 Lux 500 Lux

2 Lux) (10 Lux) (50 Lux) (Disable

Hold-time V

Stand-by time 🔻

5 min 30 min

10%) (20%) (30%) (50%

Dual tech & RE mode V

HRC-11

5min 15min

1 min) (10 min) (20 min

(1 min) (10 min) $(+\infty)$

12h 4h 30s

PIR HF+PIR HF/PIR

(Transmit) (RX 100%) (RX STBY%)

Start

Tri-level

100 Lux

Test 2s

10 s

0s

24h

Learn Erase CCT+

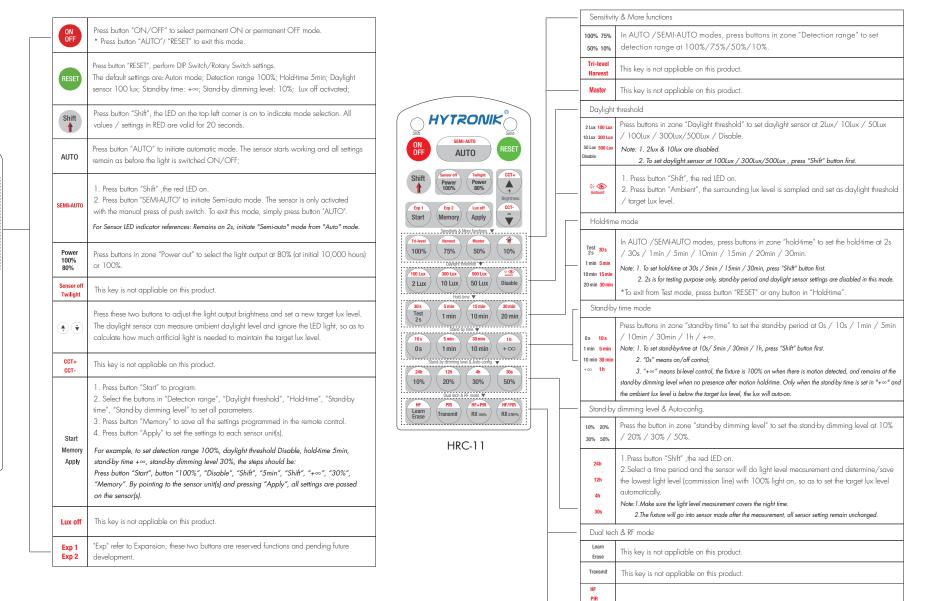
CCT

10%

19

30 min

1h



HF+PIR This key is not appliable on this product.

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