Installation and Instruction Manual



HIGH BAY MICROWAVE MOTION SENSOR

HMW32

1. Technical Specifications

Product type	High bay microwave motion sensor (daylight harvest)			
Operating voltage	220~240VAC 50/60Hz			
Rated load (max.)	Capacitive: 800VA			
	Resistive: 1000W			
Power consumption	< 0.5W			
Detection angle	360°			
Detection area (max.)	Installation Height: 20m (forklift) 15m (person)			
	Diameter (Ø):20m			
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	20s			
Operating temperature	-20°C ~ +50°C			
IP rating	IP65			

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	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	+∞	10%	100Lux
5	100%	5min	+∞	30%	200Lux
6	100%	10min	30min	10%	50Lux
7	100%	10min	+∞	10%	75Lux
8	100%	10min	+∞	10%	100Lux
9	100%	10min	+∞	30%	200Lux
A	100%	20min	1h	10%	100Lux
В	100%	20min	+∞	30%	200Lux
С	100%	30min	+∞	10%	100Lux
D	100%	30min	+∞	30%	200Lux
E	100%	30min	+∞	50%	400Lux
F	100%	5s	10s	10%	100Lux

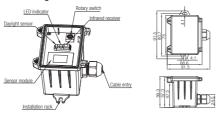
Note: settings can also be changed by remote control HRC-11. The last action controls.

2. Installation

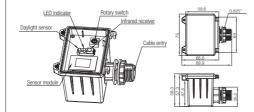
⚠ Warnings:

- 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.
 Disconnect supply before installing.
- 2. Disconnect supply before mataling

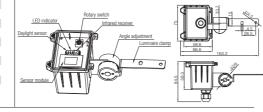
A. Ceiling mount



B. Screw to the Luminaire by conduit



C. Attach to the shade by clamp

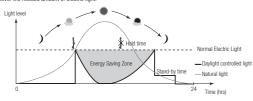


4. Functions

4.1 Daylight Harvest (Daylight Regulating)

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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.



Note: by pressing the "Sensor off" button on the remote control, the sensor occupancy function is disabled. The target lux level for daylight harvest function can be adjusted by "Brightness +/-" buttons.

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 "+-o", the fixture never switches off even when natural light is sufficient.

4.3 Ambient Daylight Threshold

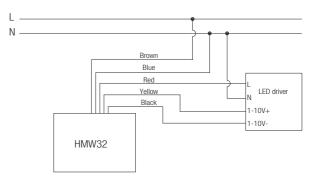
Switch the power supply to the sensor two times within 2 seconds, the ambient tux level is sampled and set as the new daylight threshold. Both the settings on rotary switch and the ambient tux level sampled can overwrite each other. This feature enables the daylight sensor to be commissioned to the environment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

4.4 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 or mode can be cancelled by turning off/on the power supply one time within 1 second

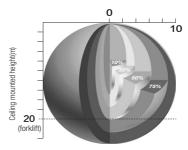
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5. Wiring Diagram



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

6. Detection Pattern



Ceiling mounted detection pattern (m)

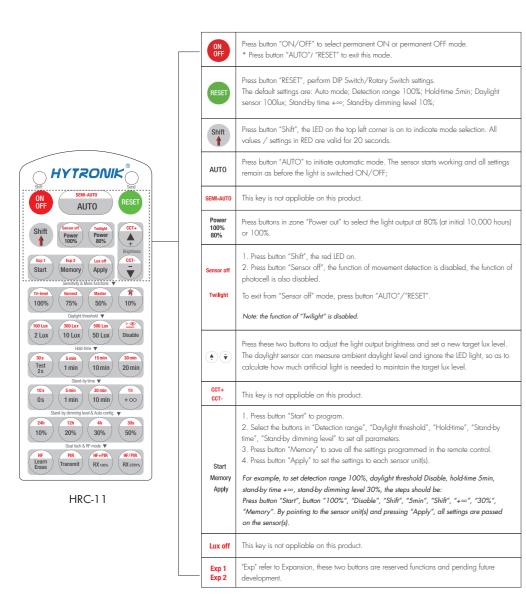
7. Trouble Shooting

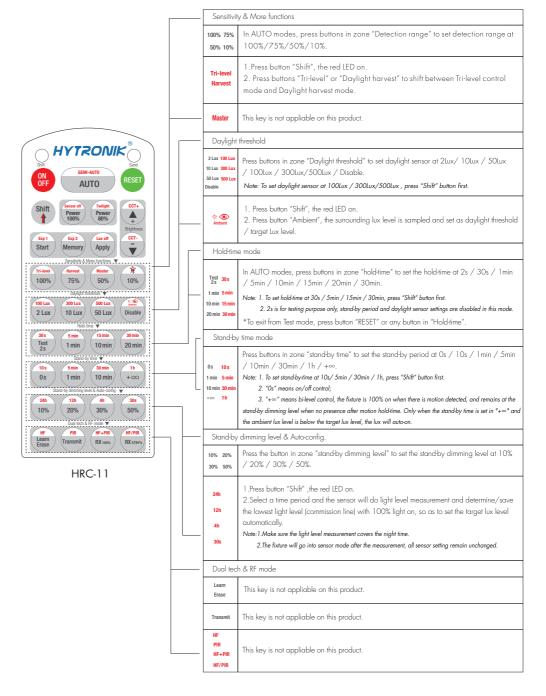
MALFUNCTION CAUSE REMEDY	CAUSE	REMEDY	
The fixture does not light up	Incorrect daylight threshold setting	Adjust daylight threshold setting	
	Faulty fixture	Replace fixture	
The fixture does not light up	No power supply	Check power to sensor	
	Detection zone not targeted	Check detection area setting	
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	



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

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





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Subject to change without notice

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