Installation and Instruction Manual



HIGH BAY MICROWAVE MOTION SENSOR

HMW30

1. Technical Specifications

Product type	On/off control microwave motion sensor			
Operating voltage	220~240VAC 50/60Hz			
Rated load	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% / 75% / 100%			
Hold time	2s / 30s / 1min / 5min / 10min / 15min / 20min / 30min			
Daylight threshold	2 ~ 500Lux, Disable			
Warmming up time	20s			
Operating temperature	-20°C ~ +50°C			
IP rating	IP65			

Note: We recommend the mounting distance between sensor to sensor should be more than 2m to prevent sensors from false-triggering.

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	+∞	30%	Disable
В	75%	10min	+∞	10%	30Lux
C	50%	10min	+∞	10%	10Lux
D	100%	30min	+∞	10%	50Lux
E	100%	30min	+∞	30%	Disable
F	100%	5s	10s	10%	2Lux

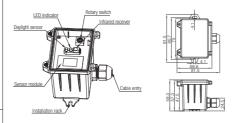
Note: settings can also be changed by remote control HRC-11. The last action controls.

2. Installation

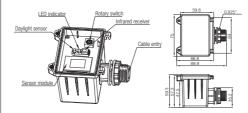
⚠ Warnings:

- 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 power supply before installing.

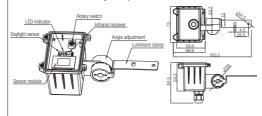
A. Ceiling mount



B. Screw to the Luminaire by conduit



C. Attach to the shade by clamp



4. Functions

4.1 On/off Control

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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.

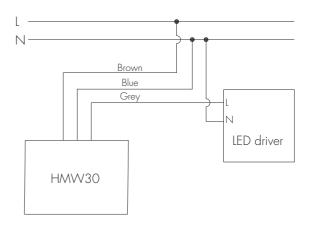
4.2 Zero-cross Relay Operation

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.



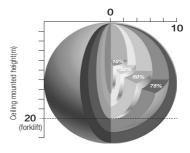
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5. Wiring Diagram



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

6. Detection Pattern



Ceiling mounted detection pattern (m)

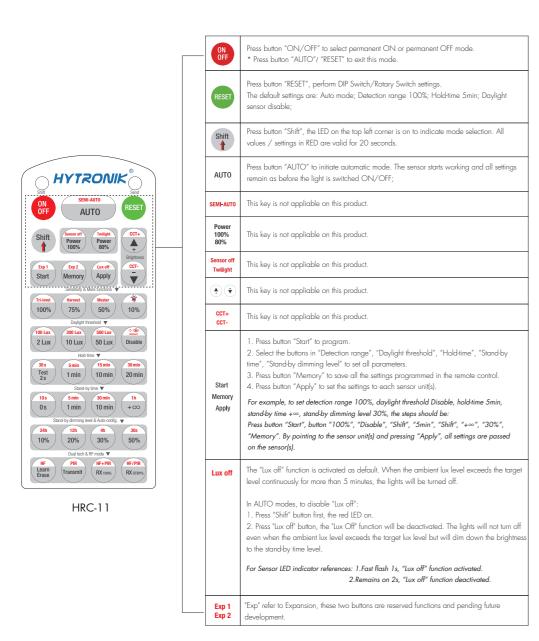
7. Trouble Shooting

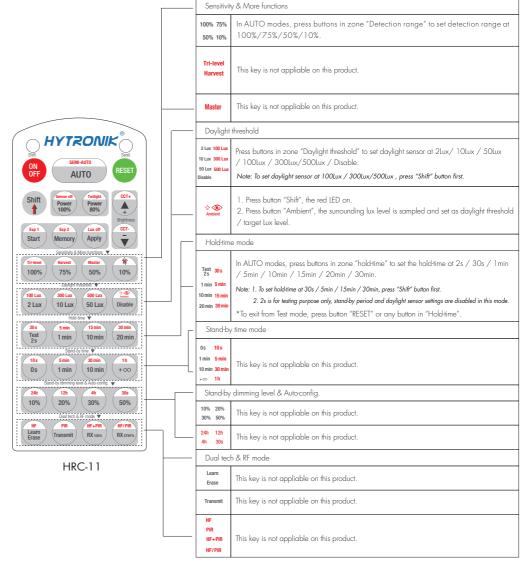
MALFUN	NCTION CAUSE REMEDY	CAUSE	REMEDY
The fixture does not light up		Incorrect daylight threshold setting	Adjust daylight threshold setting
	ura daga pat light up	Faulty fixture	Replace fixture
	are does not light up	No power supply	Check power to sensor
		Detection zone not targeted	Check detection area setting
The fixtu	ure is always on	Continous movement in the detection zone	Check detection area setting
The fixtu	ure 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	

Subject to change without notice.

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

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









Subject to change without notice