Installation and Instruction Manual

HYTRONIK

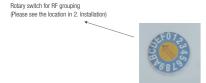
HIGH BAY RF WIRELESS MICROWAVE DALI SENSOR

HMW39/RF

1. Technical Specifications

Product type	RF wireless microwave DALI sensor (tri-level control)	
Operating voltage	220~240VAC 50/60Hz	
Rated load	Maximum 40mA	
Power consumption	< 1.5W	
Detection angle	360°	
Detection area (Max.)*	Installation Height: 20m (forklift) 15m (person)	
	Detection Range (Ø):20m	
Detection range	10% / 50% / 75% / 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	2 ~ 500Lux, Disable	
RF transmission distance	30 meters in the open area	
RF frequency	868MHz (FSK mode)	
Warming up time	20s	
Operating temperature	-20°C ~ +50°C	
IP rating	IP65	

3. Rotary Switch for RF grouping



15 channels are available for fast grouping via rotary switch. By simply selecting the same channel on each unit, the grouping is automatically completed.

Noted: channel "0" is not for fast grouping, and sensors can only be grouped by remote control.

4. Functions

4.1 Tri-level Control (Corridor Function)

Hytronik builds this function inside the motion sensor to achieve tri-level control, for some areas it requires a light change notice before switch-off.

It offers 3 levels of light: 100%-->dimmed light-->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.

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 not required (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 Load Indication

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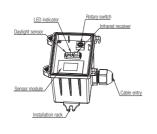
The light will flash ONCE rapidly after receiving the command from the remote controller. Note: There is no load indication (the light will not flash) when button ON/OFF, POWER 100% or POWER 80% is pressed.

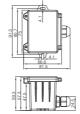
2. Installation

⚠ Warnings:

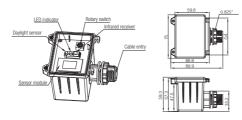
- Installation must be carried out by a qualified engineer in accordance with local regulations.
- 2. Disconnect power supply before installing.
- 3. Install to a solid surface vibrations may cause mis-triggering.
- 4. Ensure environmental conditions are suitable for electronic equipment

A. Ceiling mount

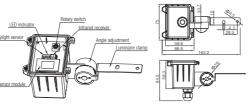




B. Screw to the Luminaire by conduit

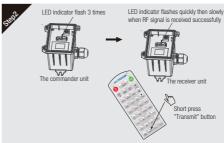


C. Attach to the shade by clamp



5. RF grouping







Short press "Learn/Erase" button on RC to the receiver to activate pairing mode, and the LED indicator on receiver unit will flash slowly. Note: up to 30 units can be paired.

Short press "Transmit" button on RC to the commander, the LED indicator on commander unit will flash for 3 times to send the transmission signal.

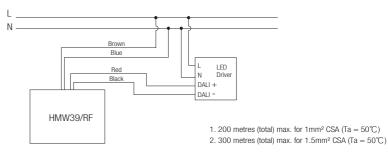
Upon receiving the transmission signal, the indicator on receiver unit will flash quickly then slowly to indicate the success of pairing. One more short press on "Learn/Erase" button to the receiver unit to complete the pairing process, the receiver unit will quit the pairing mode.

The sensor can serve as both commander and receiver, simply repeat above steps the other way around.

Erase:

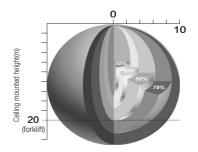
Long press "Learn/Erase" button for 3s to the sensor unit, the indicator rapidly flashes 12 times, all commands that it has received before will be erased.

6. Wiring Diagram



—This product should be installed by a qualified electrician.

7. Detection Pattern



Ceiling mounted detection pattern (m)

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

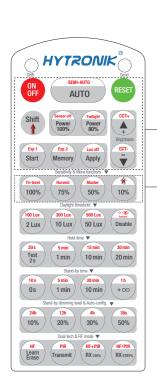


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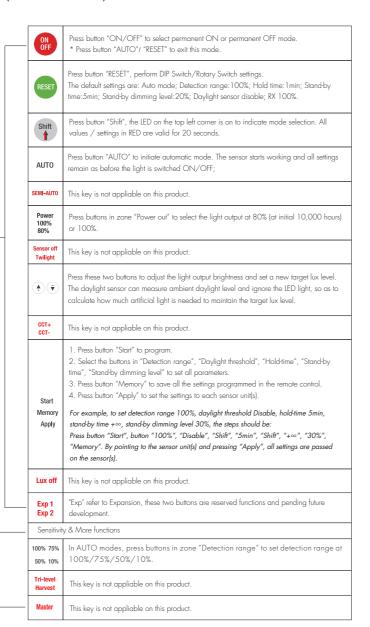
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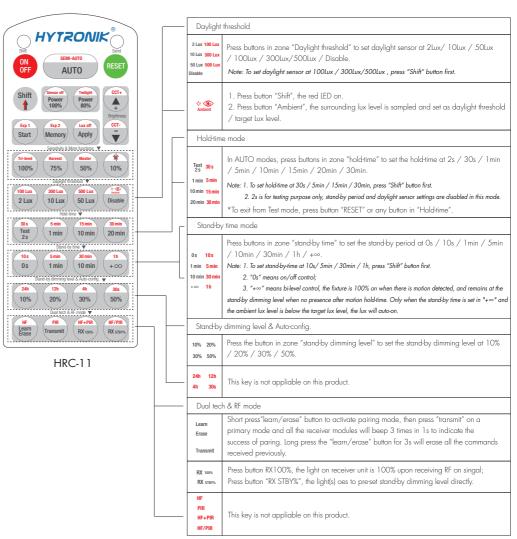
8. Descriptions of the Button Functions (remote control HRC-11)



HRC-11

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9. Troubleshooting

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