Installation and Instruction Manual



HIGH BAY DUAL SENSE INDEPENDENT DALI SENSOR HIM35

1. Technical Specifications

Product type	High bay independent DALI sensor (tri-level control)		
Operating voltage	220-240VAC 50/60Hz		
Switched power	Maximum 40mA		
Power consumption	< 1W		
Detection angle	360°		
Detection area (Max.)*	Installation Height: 15m		
	Detection Range (Ø): 24m		
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		
Warming up time	30s		
Operating temperature	-35°C ~ +50°C		
IP rating	IP65		
Sensor mode	HF, PIR, HF+PIR, HF / PIR		

3. Rotary Switch Settings

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



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
С	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.

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

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.

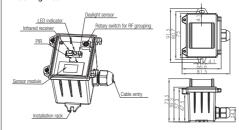
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2. Installation

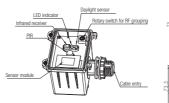
⚠ Warnings:

- 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 power supply before installing.

A. Ceiling mount

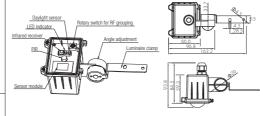


B. Screw to the Luminaire by conduit



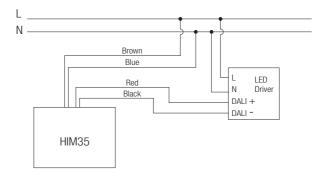


C. Attach to the shade by clamp



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

5. Wiring Diagram

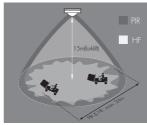


6. Three Options for PIR Lens and Detection Patterns (End user can choose the suitable lens in real application for various requirements)

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



Detection pattern for forklift



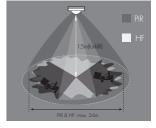






PIR detection: $\emptyset = 24$ m (max.) HF detection: $\emptyset = 24$ m (max.)



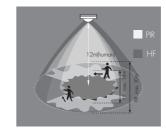


PIR detection: \emptyset = 24m (max.) HF detection: \emptyset = 24m (max.)

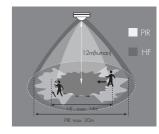
Detection pattern for human



HF detection: $\emptyset = 14$ m (max.) PR detection: $\emptyset = 20$ m (max.)



HF detection: Ø = 14m (max.) PR detection: Ø = 20m (max.)



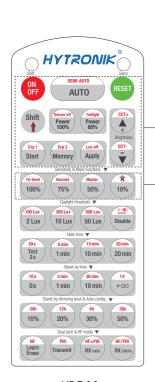
HF detection: $\emptyset = 14$ m (max.) PIR detection: $\emptyset = 20$ m (max.)



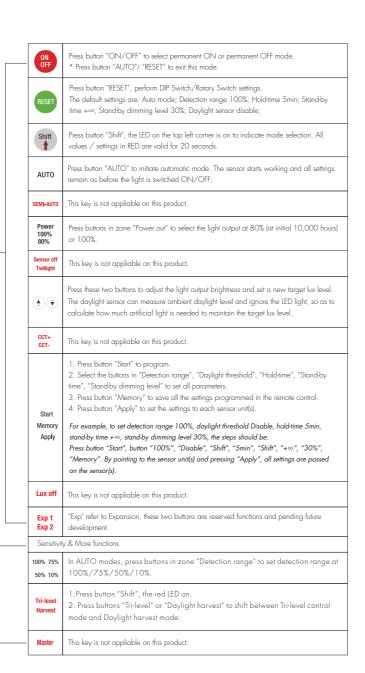


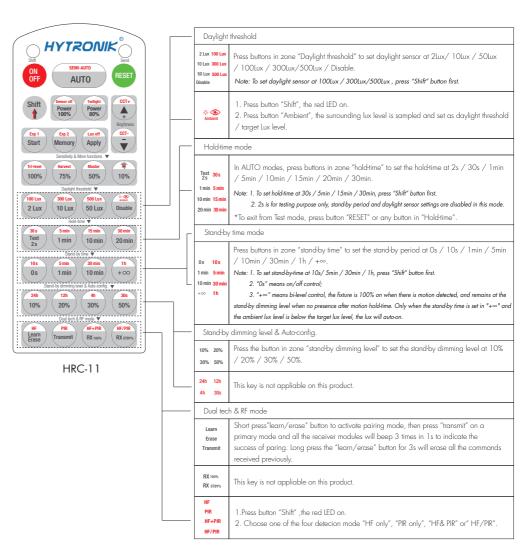
Subject to change without notice.

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



HRC-11





8. 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



