Installation and Instruction Manual



HIGH BAY MICROWAVE DALI SENSOR

HMW35

1. Technical Specifications

| Product type | High bay microwave DALI sensor (tri-level control) | | |
|------------------------|--|--|--|
| Operating voltage | 220~240VAC 50/60Hz | | |
| Switched power | Maximum 40mA | | |
| Power consumption | < 0.5W | | |
| 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 | | |
| 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:



| 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 |
| | | | | | |

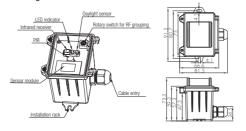
Note: settings can also be changed by remote control HRC-11. The last action controls.

2. Installation

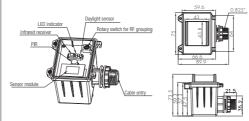
⚠ Warnings:

I. 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.

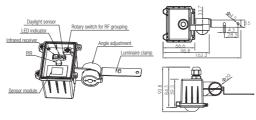
A. Ceiling mount



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.

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 require 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 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.

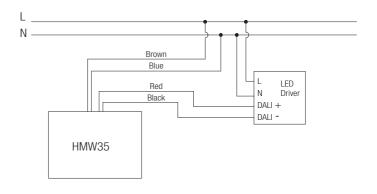
4.3 Load Indication

The light will flash ONCE rapidly after receiving the command from the remote controller.

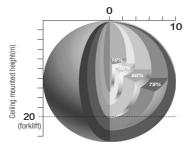
Note: There is no load indication (the light will not flash) when button ON/OFF, POWER 100% or POWER 80% is pressed.

HYTRONIK

5. Wiring Diagram



6. Detection Pattern

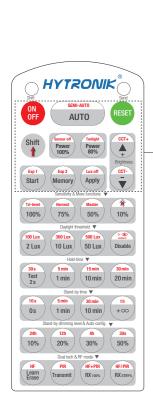


Ceiling mounted detection pattern (m)

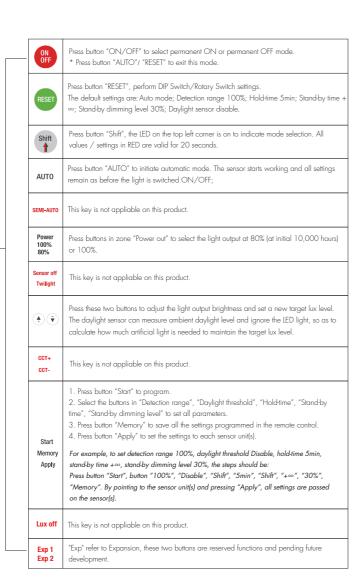
7. Trouble Shooting

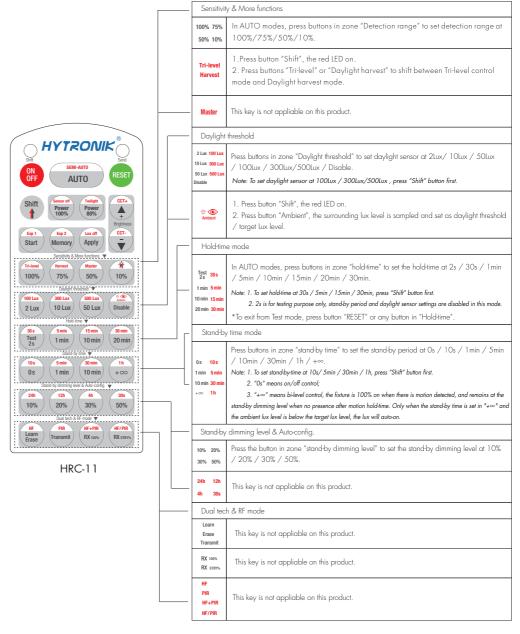
| MALFUNCTION CAUSE REMEDY | CAUSE | REMEDY |
|--------------------------------------|--|---------------------------------------|
| The fixture does not light up | Incorrect daylight threshold setting | Adjust daylight threshold setting |
| | Faulty fixture | Replace fixture |
| | No power supply | Check 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.



HRC-11









Subject to change without notice

WWW.HYTRONIK.COM