Dextra R25W Reacta Wave Sensor User Manual

Dextra GROUP PLC

React-Wave Sensor (R25W)
User Manual

Contents

R25W Reacta Wave Sensor

UK CA CE 	**WARNING** – THIS LUMINAIRE MUST BE EARTHED This luminaire has been tested and is manufactured to comply with BS EN 6059 8 : specification for general requirements and tests. It should be installed by a su itably qualified person in accordance with IEE. **CAUTION:** there is a potential risk of electric shock from the LED boards when t he product is operational with the cover removed. **NOTE:** INSTALLATION AND OPERATION OF THE LUMINAIRE BEYOND ITSS COPE OF SUPPLY WILL INVALIDATE THE WARRANTY.

WARNING

Once a site has been commissioned the customer should export their network, this can be done via email from the device used to commission and will export the network settings and access rights in a file to any email address that they want, this can then be saved to a safe location for future access and sent to other devices with the app installed so that they can be given access rights to the network. Please refer to the Micas AUto Light Smart DALI User Manual when backing up the network.

FAILURE TO EXPORT NETWORK SETTINGS AFTER COMMISSIONING WILL RESULT IN THE CUSTOMER BEING UNABLE TO ACCESS THE SENSOR

SETTINGS FROM ANY OTHER DEVICE OTHER THAN THAT FROM WHICH IT WAS COMMISSIONED.

If commissioning is undertaken more than 24 hours after first installation, mains power must first be cycled to ensure the sensors communicate with the commissioning tablet.

Please note that detection ranges may vary depending on type of luminaire in which the sensor is installed and other environmental factors.

Technical Data

Operating voltage	230 V ± 10 %, 50 Hz
Standby power	< 1.0 W
Interfaces	Wireless (Bluetooth)
Sensor principle	HF motion detector
Frequency range	5.8 GHz +/- 75 MHz
HF power	< 5 mW (< 14 dBm EIRP)
Detection range	up to 15 m (frontal, wall mounted) up to 10 m (diameter, ceiling mounted)
Detection angle	approx. 120° (depending on diffusor)
Motion detection	0.3 … 3 m/s (1 … 10 km/h)
Adjustable functions	via App on a smart device
Sensitivity	0 … 100 % in 10 % steps
Hold time	5 seconds … 60 minutes
Daylight sensor	1 Lux … 350 Lux; 00; teach in
DIM level	0 … 100 %
Program Modes	On / Off, Permanent, Corridor, Soft-DIM: active / inactive
Mounting height	max. 2.70 m (wall mounting), max. 4.00 m (ceiling mounting)
Operating temperature	-20 … +60 °C
IP rating	IP 20 (mounting inside the luminaire)
Size	84 x 30 x 21 mm (L x W x H, incl. mounting lugs)
Certificates	CE (additional certificates on request)

Installation Considerations

- Detection ranges above assume bare sensor, please reduce diameter by 2M when installed in luminaire.
- Do not install above the maximum recommended height.
- Close proximity to metal objects could cause the sensor to repeatedly retrigger, avoid installation in such situations or reduce the sensitivity of the sensor until retriggering stops, please note that the detection range of the sensor will be reduced by doing so.
- Microwaves can penetrate certain materials such as plasterboard, wood and glass, causing unwanted sensor triggering for example through partition walls. Position sensors and luminaires to account for this possibility.
- Avoid installation close to obstructions that will interfere with the sensor detection range. The sensor must have line of sight to the area to be controlled.
- The luminaire must be rigidly fixed. Suspended luminaires that are subject to motion may cause unwanted sensor triggering.
- Machinery in motion or strong air currents in the detection area may cause unwanted sensor triggering.
- Sensors should not be installed in close proximity to one another or unwanted triggering may occur.

- Sensors should not be positioned directly next to other switching light sources as on / off cycling may cause unwanted sensor triggering.
- Sensors and luminaires should be positioned to avoid “dead” areas between luminaires without detection to ensure that the moving target is always adequately lit.

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Documents / Resources

	Dextra R25W Reacta Wave Sensor [pdf] User Manual R25W Reacta Wave Sensor, R25W, Reacta Wave Sensor, Wave Sensor, Sensor