



PRODUCT SPECIFICATION

R25C



INTRODUCTION

The Reacta R25C Sensor is an integrally mounted microwave sensor ideally suited to integration with IP65 ranges such as amenity and non corrosive luminaires at mounting heights between 2.5M and 4M. The Reacta R25C sensor offers both presence detection and bright out operation for bi-level dimming of luminaires. Luminaires incorporating the Reacta 25C Sensor will operate at 10% output during periods of absence and 100% during periods of occupancy. Please note that in order to switch the luminaires off completely the mains must be isolated so we recommend the use of a separate wall switch, photocell or time clock to prevent continuous operation during daylight hours where operation at 10% output is not desirable. The Reacta 25C sensor incorporates adjustable time delays, sensitivity and daylight level functions.

FEATURES & BENEFITS

- Mounting Type: Integral
- Wireless: No
- Maximum Mounting Height: m
- Occupancy Detection: Microwave
- Daylight Control: Bright Out
- Output: Bi-Level Dimming
- IP Rating: IP20
- Programmer: Manual

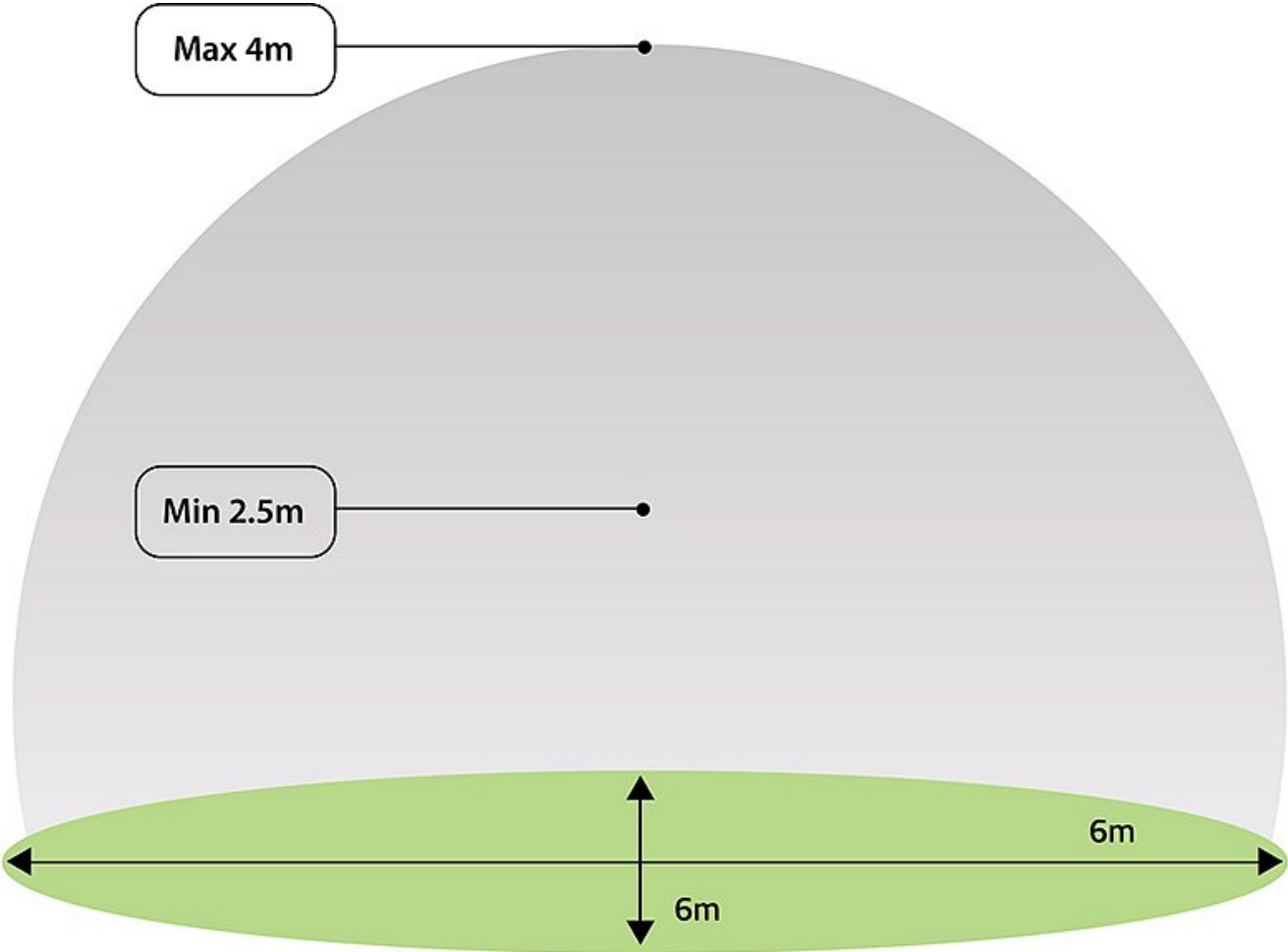
ADJUSTABLE PARAMETERS

- Occupied Time: Up to 30 minutes
- Transition Time: Forever
- Bright Out Threshold: Disabled/2-50Lux

IMAGES



SENSOR DETECTION





NOTE: INSTALLATION AND OPERATION OF THE SENSOR BEYOND ITS SCOPE OF SUPPLY WILL INVALIDATE THE WARRANTY.

Sensor Type:

Microwave motion detection with bright out function

Fixing / Suspension:

For use integrally to sealed luminaires such as amenity bulkhead and non-corrosive luminaires

Ingress Protection:

IP20

Ballast Control:

Relay Switch On / Off

Working Height:

6M Ceiling Mount / 4M Wall Mount

Temperature Range:

-35 to +70 degrees centigrade (ambient temperature within the luminaire)

Target Type:

Persons / Vehicles

Maximum Switching Load:

400W Capacitive
800W Resistive

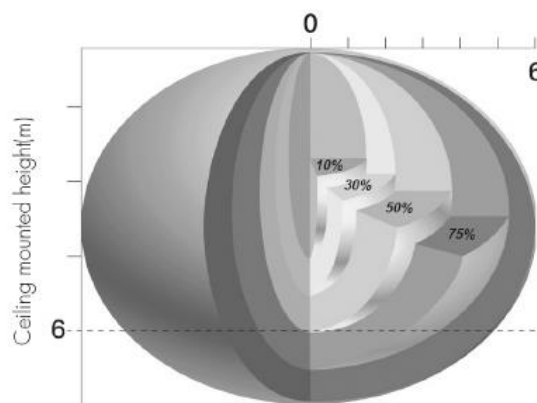
Programming:

Via dip switches

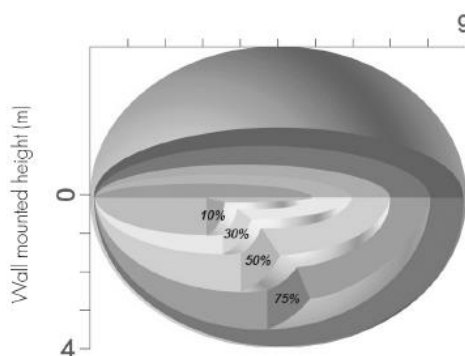
Installation Considerations

- Dimmable bi level luminaires (corridor function) are supplied set to switch dim mode. These must be switched to corridor mode on installation by operating the luminaires at full output for in excess of 5 minutes.
- Detection diagrams shown 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.

	Detection Area			Hold Time			Daylight Sensor					
	1	2	3	4	5	6	7	8	9			
I	•	•	•	100%	•	•	•	5s	•	•	•	Disable
II	○	•	•	75%	•	○	•	30s	○	•	•	50 Lux
III	○	•	○	50%	•	○	○	1min	○	•	•	20 Lux
IV	○	○	•	30%	○	•	•	5min	○	•	○	5 Lux
V	○	○	○	Sensor OFF	○	•	○	10min	○	○	○	2 Lux
VI	-	-	-	N/A	○	○	•	20min	-	-	-	N/A
VII	-	-	-	N/A	○	○	○	30min	-	-	-	N/A



Ceiling mounted detection pattern (m)



Wall mounted detection pattern (m)

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