Industrial

QStorm

Vapour Proof

CODE: QSTORM-40-1200NW/MS

- IP66 Ingress Protection
- IK08 Impact Resistance
- Polycarbonate Housing
- 301 Stainless Steel Clips

Dimensions

Microwave Sensor
Info on Following Pages

5 YEARS WARRANTY + 1 YEAR ON SITE *

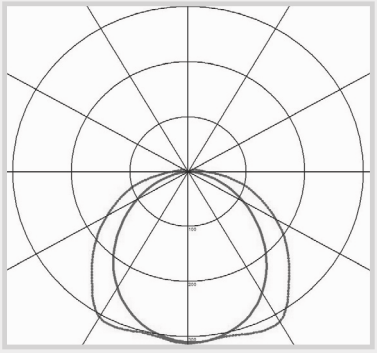
Power	Efficacy	Output	Kelvin
40W	130Lm/cW	5200Lm	4000K

Technical

Input Voltage	AC 200-240V
Colour Rendering Index	>80
Beam Spread	120°
Power Factor	>0.9
Operating Temp.	-20 to +40°C
Materials	Polycarbonate
IP Rating	IP66
IK Rating	IK08
Dimmable	Microwave Sensor
Dimensions	1223mm x 120mm x 76mm
Weight	1.97kg
MacAdam Step	<3
Lifetime	50,000 hours, L70-B10 (Ta 25 °C)
CE Standards	EN60598-1, EN62493, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62722-1, EN62722-2-1 and EN50581
CE Directives	LVD, EMC, ERP & RoHS

A G E **Light Source Energy Rating**

Photometric Data



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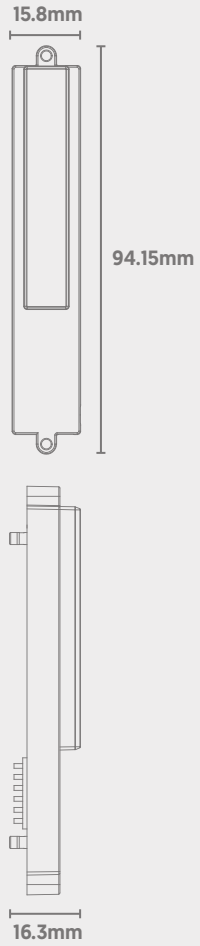
Dimensions



Main Specifications

Solution Type	IC
Input	DC 12V
Dimmable	0-10V
Controls	DIP Switch & Remote Control
Dimensions	94.15mm x 15.8mm x 16.3mm

Technical

Operating Voltage	10-15V
Operating Current	<30mA
Stand-By Power	<0.5W
Switching Capacity	<40mA Current
Mounting Height	2.5m to 4.5m (8.2ft. to 14.76ft.)
Detection Height	6m to 14m (19.68ft. to 45.93ft.)
Connection	3-Pin Output for VCC, GND, 0-10V
Microwave Power	<0.3mW
Microwave Frequency	5.8GHz±75MHz
Detection Area	DIP Switch: 50% / 100% Remote: 25% / 50% / 75% / 100%
Hold-Time	DIP Switch: 5s / 30s / 1min / 10min Remote: 5s / 30s / 1min / 10min / 20min / 30min
Daylight Threshold	DIP Switch: 50Lx / Disabled Remote: 2Lx / 10Lx / 15Lx / 50Lx / 80Lx / 120Lx / Disabled
Stand-By Period	DIP Switch: 0s / 1min Remote: 0s / 10s / 30s / 1min / 5min / 10min / 20min / 30min / +∞
Stand-By Dimming Level	DIP Switch: 10% / 30% Remote: 10% / 20% / 30% / 50%
Detection Angle	Side Wall: <150° Ceiling Mounted: 360°
Factory Default	Detection Area: 100% Hold Time: 5s Daylight Threshold: Disabled Stand-By Period: 0s Stand-By Dimming Level: 10%

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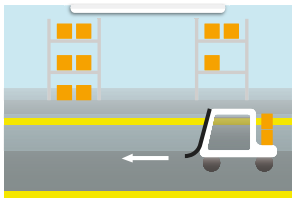
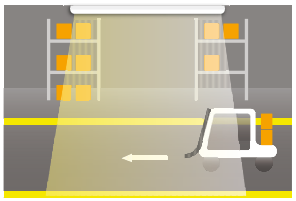
Function Overview

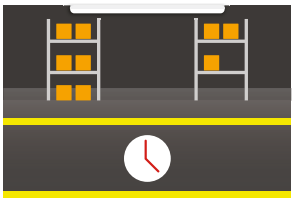
On/Off Function (Stand-By Period is 0s)



1) If ambient light is at a sufficient level, the light will remain off even if motion is detected.

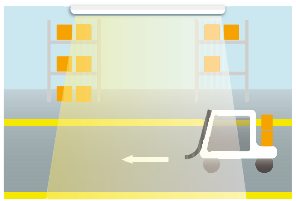


2) If ambient light is not sufficient, the light will switch on when motion is detected by the sensor.

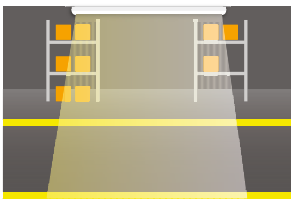


3) After hold-time elapses, the sensor will switch off the light if no motion is detected.

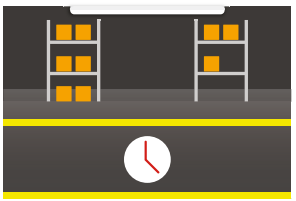
Daylight Threshold Set To 'Disabled'



1) If motion is detected, the light will switch on.



2) The sensor keeps the light on for the set hold time after the object leaves the detection area.

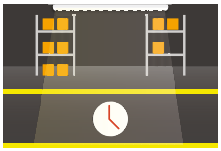


3) After hold-time elapses, the sensor will switch the light back off.

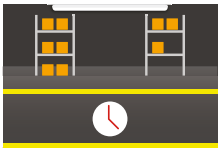
Corridor Function (2 Level Dimming)

1) If ambient light is at a sufficient level, the light will remain off even if motion is detected.

2) If ambient light is not sufficient, the light will switch on when motion is detected by the sensor.



3) After hold-time elapses, the sensor will switch back to the preset low light level if no motion is detected.



4) After stand-by period elapses, the sensor will switch the light off if no motion is detected.

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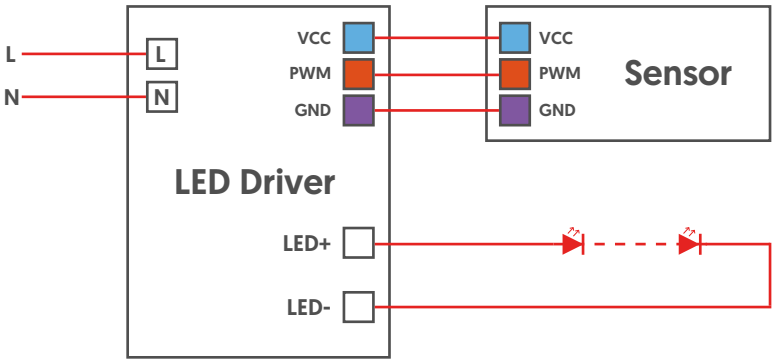
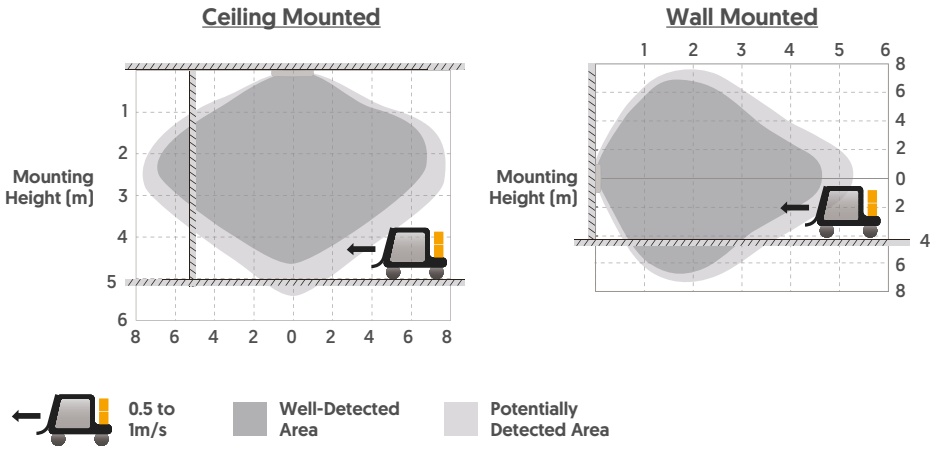
Wiring Diagram*



VCC = DC 12V Input
PWM = 0/10V DIM+
GND = 0/10V DIM-

Detection Patterns



The highest mounting height is ideally 4.5m for optimal detection (see dark grey areas). This figure indicates 100% sensitivity.

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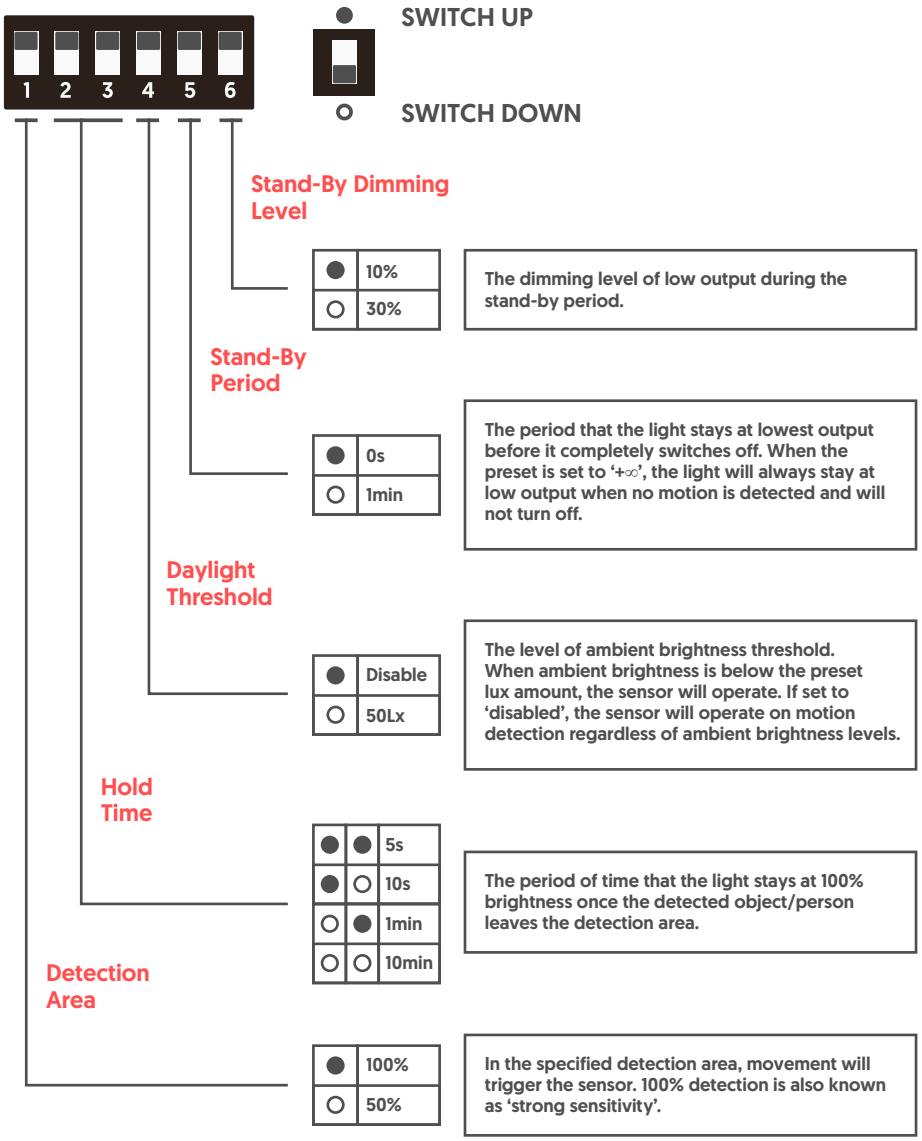
DIP Switch Settings



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Factory Settings

- **Detection Area: 100%**
- **Hold Time: 5s**
- **Stand-By Period: 0s**
- **Daylight Threshold: Disabled**
- **Stand-By Dimming Level: 10%**

Important Notes

1) The sensor should only be installed by a qualified electrician.

2) Power must be off before any installation, wiring, or changing of DIP switch settings takes place.

3) Microwaves cannot penetrate metal. Do not place the sensor within an enclosed metal fitting or half-closed metal fitting. Metal or glass (thicker than 20mm) should not cover the sensor, as this will affect performance.

4) The distance between the sensor and any other sensors should be greater than 3m. Keep the sensor away from switches, routers and other wireless devices that may interfere, in order to avoid radio interference.

5) Vibration signals may be picked up as moving signals, therefore triggering the sensor. Avoid placing the sensor near objects that vibrate regularly, such as metal equipment, pipes, air conditioning outlets, exhaust vents, smoke exhaust machine ports, shaking fans etc.

6) The light sensitivity threshold is a daylight environment, with no shadow and ambient light diffusion reflections. Ambient lux levels could be compatible to various environments (weather, climate, time-of-day).

7) Wiring must be strictly in accordance to the diagram provided to avoid short circuit.

8) Keep a good distance from the driver in order to avoid interference.

9) Testing should be conducted on sunny days with no lampshade in order to get an accurate lux value reading.