

Industrial



IP66 Ingress Protection



IK08 Impact Resistance

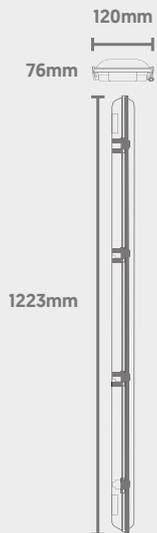


Polycarbonate Housing



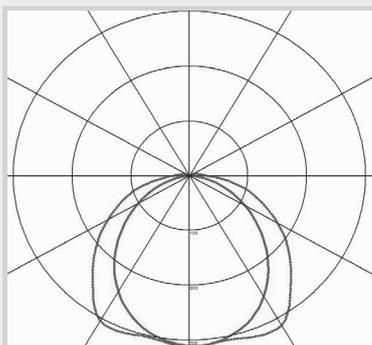
301 Stainless Steel Clips

Dimensions



Light Source Energy Rating

Photometric Data



QStorm

Vapour Proof

CODE: QSTORM-40-1200NW/MS/EM

QVIS[®]
LED LIGHTING



Microwave Sensor
Info on Following Pages



| Power | Efficacy | Output | Kelvin |
|--------------------|----------|--------------------------|--------|
| 40W [Emergency 3W] | 130lm/cW | 5200Lm [Emergency 390Lm] | 4000K |

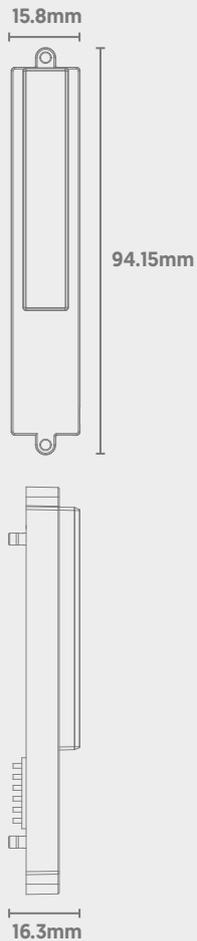
Technical

| | |
|------------------------|--|
| 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 | 2.13kg |
| MacAdam Step | <3 |
| Lifetime | 3 Hours [3W] |
| 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 |

QStorm

Microwave Sensor

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

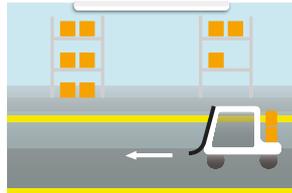
| | |
|-------------------------------|---|
| Operating Voltage | 10-15V |
| Operating Current | <30mA |
| Stand-By Power | <0.5W |
| Switching Capacity | <40mA Current |
| Mounting Height | 2.5m to 4.5m [8.2ft. to 14.76ft.] |
| Detection Height | 6m to 14m [19.68ft. to 45.93ft.] |
| Connection | 3-Pin 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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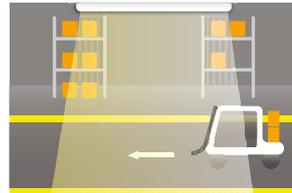
Microwave Sensor

Function Overview

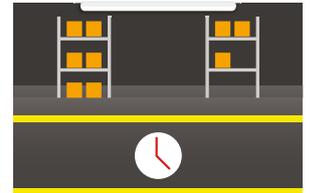
On/Off Function (Stand-By Period is 0s)



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

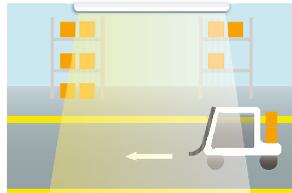


2) If ambient light is not sufficient, the light will switch on when motion is detected by the sensor.

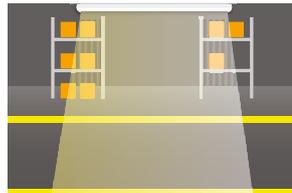


3) After hold-time elapses, the sensor will switch off the light if no motion is detected.

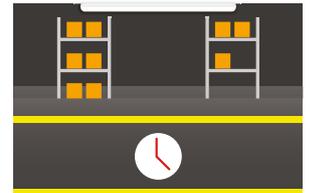
Daylight Threshold Set To 'Disabled'



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

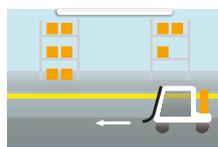


2) The sensor keeps the light on for the set hold time after the object leaves the detection area.

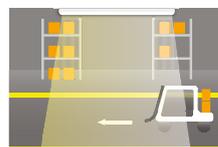


3) After hold-time elapses, the sensor will switch the light back off.

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.

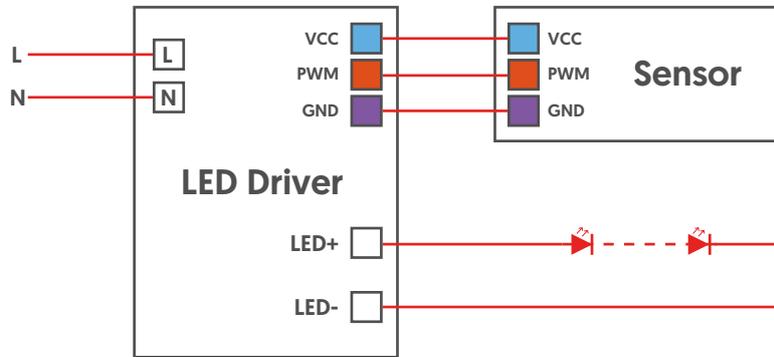


4) After stand-by period elapses, the sensor will switch the light off if no motion is detected.

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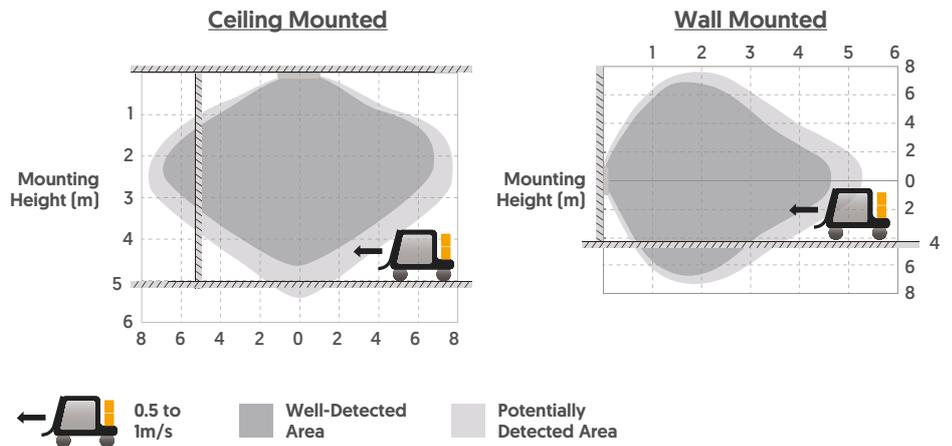
Microwave Sensor

Wiring Diagram*



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

Detection Patterns

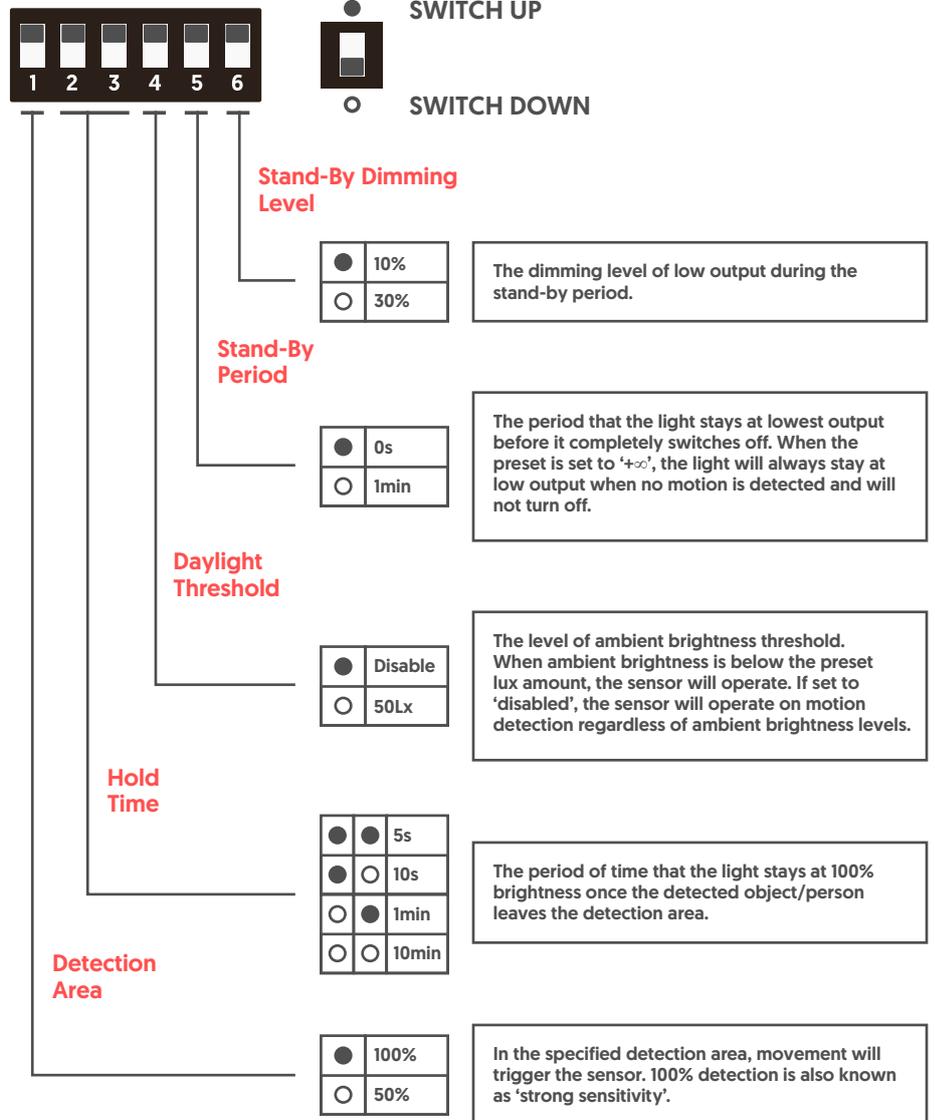


The highest mounting height is ideally 4.5m for optimal detection [see dark grey areas]. This figure indicates 100% sensitivity.

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Microwave Sensor

DIP Switch Settings



QStorm Microwave Sensor

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.