GLOW UFO HIGHBAY

GLOWUFO-100NW/MS/EM







100W









TECHNICAL DRAWINGS

| 165mm 165mm 260mm |
|-------------------------|
|-------------------------|

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

| -/+180 -150 | |
|--|---|
| -120 -90 0 1000 2000 | 90 |
| -60 3000 30 30 AVERAGE BEAM ANGLE (50%): 114.9 DEG | 60 UNIT: cd - C0/180, 114.9 deg - C30/210, 115.0 deg - C60/240, 115.0 deg - C90/270, 114.9 deg |



UFO Highbay-100NW Specification System Power 100W (Emergency 5W) LED Chipset Samsung Driver Manufacturer Merrytek Colour Rendering Index Lumen Output 14000Lm (Emergency 700Lm) LED Efficacy 140 Lm/cW Power Factor >0.9 IP65 IP Rating IK Rating IK08 Beam Spread 120° 4000K Colour Temperature Housing Material Aluminium Diffuser Type Tempered Glass Operating Temperature -20 to 65 °C Input Voltage AC200-240V, 47-63H 3.3kg (Net), 3.8kg (Gross) Weight Dimensions ø260mm x165mm MacAdam Step Lifetime 50,000 hours, L70-B10 (Ta 25 °C) **Emergency Output** EN60598-1, EN 60598 2-5, CE Standards EN62493, EN55015, EN61547, EN61000-3-2, EN61000-3-3, EN62722-1, EN62722-2-1 and EN50581 **CE** Directives LVD, EMC, ERP & RoHS

*For emergency products with a rated service life of < 50.000 operating hours, QVIS offers a 5-year warranty period on the luminaire and 1-year warranty period on the battery pack

^{*} Warranty terms and conditions apply



1. Features



- Operating voltage 120~277V AC,
- Patented microwave antenna, mounting height is15m Max
- Supports high-sensitivity and low-sensitivity modes (for metal ceilings, metal reflector mounting environments)
- Work with 1-10V dimmable LED driver, easy to achieve 2-step or 3-step dimming function.
- New patented remote control to adjust the transmitting angle to avoid misuse
- Dim+/Dim- to set occupany light level

2.Parameter

| Input | Operating Voltage Rage | 108-305V AC, 50Hz/60Hz |
|---------------|------------------------|---|
| | DC Input Voltage | N/A |
| | Rated Voltage | 120-277Vac,60Hz |
| | No-load Power | N/A |
| | Stand-by Power | <1W |
| | Surge Test | LN: 1kV |
| Output | Working Mode | ON/OFF function, 1-10V step dimming |
| | Type of Load | Inductive or resistive Load |
| | Load Capacity | 120VAC: 4A; 220-277VAC: 3A |
| Output | Current of Load | N/A |
| | Max. Surge Capacity | 50A (50% Ipeak, twidth =500uS, 230Vac full load, cold start); |
| | | 80A (50% Ipeak, twidth =200uS, 230Vac, full load, cold start) |
| Dim Interface | 1-10V Dimming | < 50mA (Non-constant source) |
| | | 10%(1.4-1.6V), 20%(1.9-2.1V), |
| | | 30%(2.9-3.1V), 50% (4.9-5.1V) |
| | Synchronous Control | N/A |
| | High Low-level | N/A |
| | PWM Control | N/A |
| Sensor | Operating Frequency | 5.8 GHz ±75 MHz, ISM Band. |
| | Transmitting power | 0.5mW Max. |
| | Hold time | 5s/30s/1min/3min/5min/10min/20min/30min |
| Parameters | Stand-by DIM Level | 10%/20%/30%/50% |
| | Stand-by Period | 0s/10s/1min/3min/5min/10min/30min/+∞ |
| | Detection Area | 25%/50%/75%/100% |



| | 1 | T | |
|--------------------------|-----------------------------------|--|--|
| | Daylight Sensor | 5lux/15lux/30lux/50lux/100lux/150lux/Disable (Ambient light diffusion) | |
| Sensor Parameters | Detecting Radius Mounting Height | See detection pattern | |
| Farameters | | 15m Max | |
| | Detecting Angle | 150°(wall mounting), 360°(ceiling mounting) | |
| Wireless Module | Operating Frequency | N/A | |
| | Transmitting power | N/A | |
| | Transmitting distance | N/A | |
| Module | Modulation mode | N/A | |
| | Number of coding | N/A | |
| Operating Environment | Operating Temperature | -35℃+55℃ | |
| | Storage Temperature | Temperature:-40℃+80℃;Humidity:10%-95% | |
| | | (non-condensing) | |
| | Safety standards | IEC60669-2-1, IEC60669-1 | |
| | | AS/NZS 60669.1, AS/NZS 60669.2.1 | |
| | | UL60730-1 | |
| Certificate Standards | EMC standards | EN55015, EN61000-3-2, EN61000-3-3, EN61547 | |
| | | AS/NZS CISPR 15, AS/NZS 4268 | |
| | | FCC Part 15C, Part 15B | |
| | | EN 60950-1, EN301489-1, EN 201489-3, EN300440 | |
| | Environmental Requirem ent | Compliant to RoHS | |
| | Certificate | cULus, CE, SAA, FCC, RED | |
| | Wiring | SJTW,5*18AWG (USA); H05RR-F,5*18AWG (Europe,Australi | |
| | | a); exposed line length: 810-830mm | |
| | Wiring color | Sheath: Black Core: Red,White,Black,Gray,Purple (US); | |
| | | blue, brown, red, purple,Gray (Europe, Australia) | |
| | IP Rating | IP65 | |
| | Protection Class | Class II | |
| Others | Installation | Independent | |
| | Dimension | (ΦxH)72*59mm | |
| | Package | Instruction+ White box+ White box tags+ Clapboard+ | |
| | | Carton(K=A) | |
| | Net Weight | MC054V RC A: 225g, MC054V RC B:246g, | |
| | - | MC054V RC C:225g , MC054V RC D:165g | |
| | Lifetime | 5 years warranty @Ta 230V full load | |

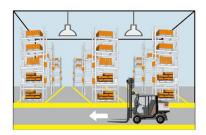
Note

- 1. "N/A" means not available.
- 2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.

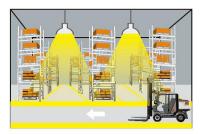


3. Function

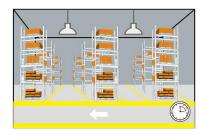
1) On/OFF Function (stand-by period be set to "0"s)



With sufficient ambient light, the light will not be switched on even if with motion signal.

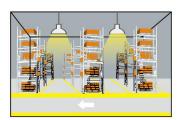


With insufficient ambient light, the sensor switches on the light when motion is detected.

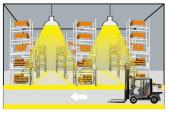


3 After elapse of hold time, the sensor switches off the light when no motion is detected.

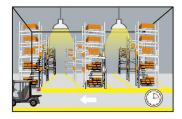
2) 2-step dimming function (stand-by period be set to "+∞")



If there is no motion detected, the light will be remained at a low light level all the time.

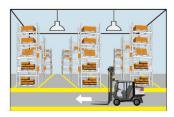


When motion is detected, the sensor will switch on the light to 100% brighteness

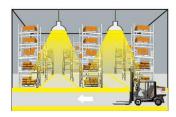


After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

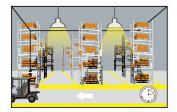
3) 3-step dimming function (stand-by period be set to "10s/1min/3min/5min/10min/30min")



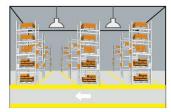
With sufficient ambient light, the light will not be switched on even if with motion signal.



With insufficient ambient light, the sensor switches on the light when motion is detected.



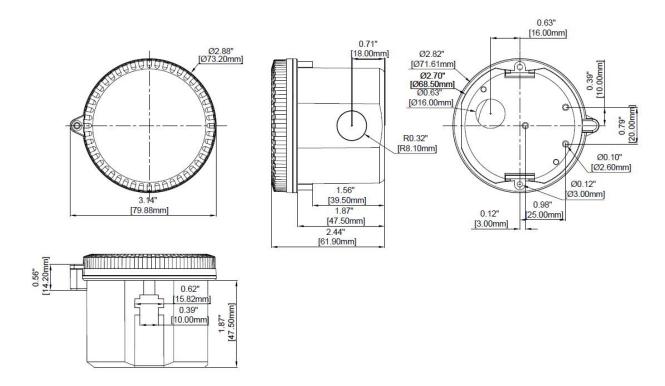
After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.

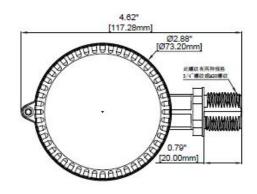


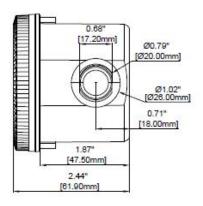
4 After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

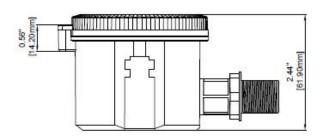


4.Dimension (mm)



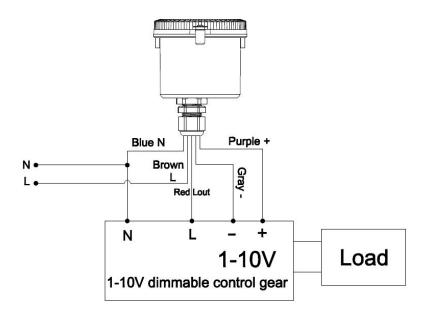






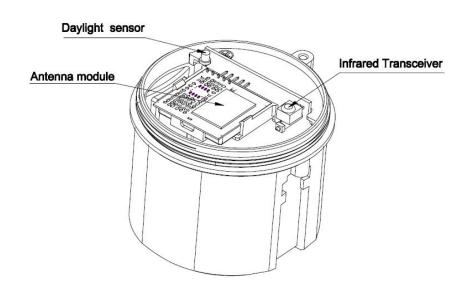


5. Wiring



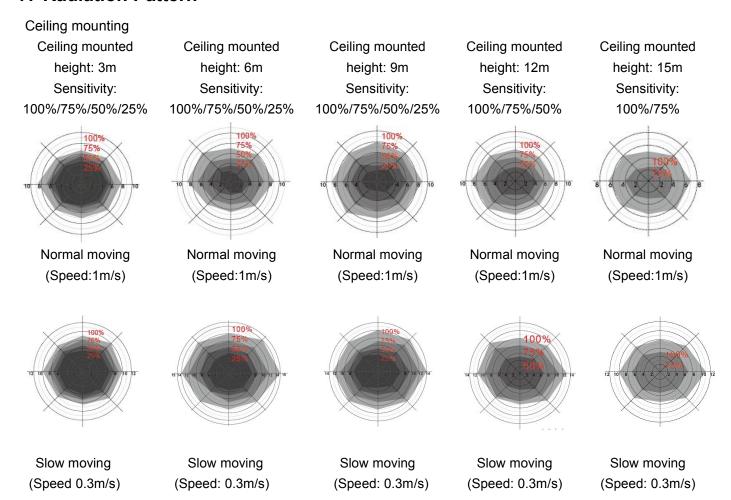
^{*}The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.

6. Function Diagram





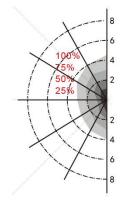
7. Radiation Pattern



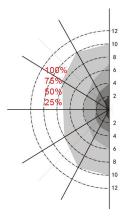
^{*}Only 100%/75%/50% detection sensitivity is workable when installed at 10m & 15m mounting height. 25% sensitivity is not able to detect motion signal.

Wall mounting

Horizon mounted height: 2m Sensitivity: 100%/75%/50%/25%



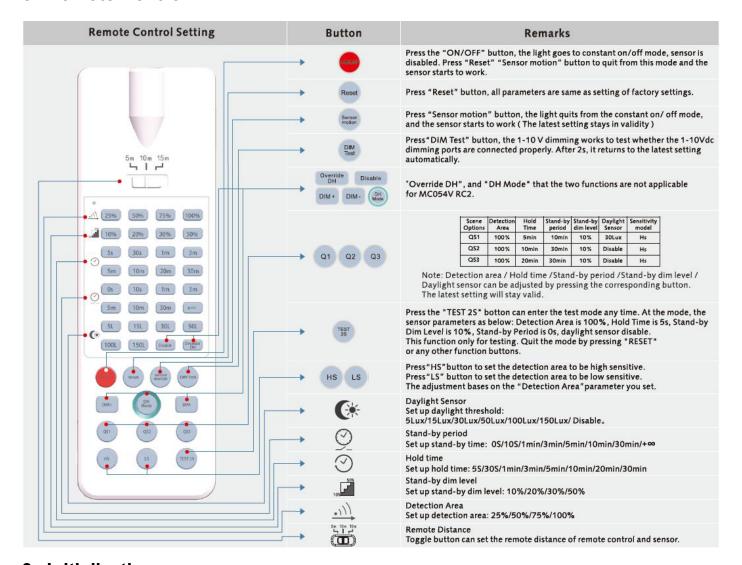
Normal moving (Speed: 1m/s)



Slow moving (Speed 0.3m/s)



8. Remote Control



9. Initialization

1/ On/Off function /3-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the sensor is not able to detect movement.

2/ 2-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it dims the light to a low light level (set by stand-by dim level). During the initialization, the sensor is not able to detect movement.

10. Factory Setting

Detection area: 100%, Hold Time: 5S, Stand-by Period: 0s, Stand-by dim level: 10%, Daylight Sensor: Disable



11. Override Function

Switch on and off power 3 times to cancel sensor function, switch on and off one time to recover sensor function

12. Application Notice

- 1) The sensor should be installed by a professional electrician. Please turn off the power before installing, wiring, changing the setting of the DIP switch.
- 2) The sensor which installed in the plastic and glass lampshade will reduce the sensitivity. For every 3mm increase in thickness, the sensitivity will be reduced by 20%.
- 3) The dimming performance could be different from different 1-10v drivers.
- 4) The light sensitivity threshold is in a sunny environment, no shadow and ambient light diffuse reflection..Ambient lux level could be different in different environment, weather, climate, time-of-day and season.
- 5) The parameters of the sensor may need to be reconfigured in different installation environments. Please refer to the following instructions or contact the manufacturer.
- 6) This sensor is for indoor use only. It will affect the waterproof effect for outdoor use. Wind, rain, and moving objects around will cause false triggering.
- 7) The distance between any inductive sensors should be greater than 3m.
- 8) Do not place the sensor close to high-density objects such as metal, glass, concrete walls, etc, false triggering could happen. When the sensor is installed in a metal lamp, metal reflective surface, or a narrow enclosed environment, the microwave will be reflected repeatedly and cause false triggering. Please reduce the sensitivity or contact the manufacturer for technical support.
- 9) Please ensure that there are no moving signals around the sensor, such as fan,DC motor, sewer pipe, air outlet, etc., the sensor may generate false trigger.
- 10) You are advised to test 5 samples before mass application of sensor in a new lighting project.
- 11) Due to continuous improvement, the contents of this instruction could be changed without prior notice.