

DATA SHEET

Item number

SR-HF-1005



Technical data
GENERAL

Highbay Sensor : ON-OFF, Dim & Daylight Harvesting.

Product description

1. Operating voltage 120~277V AC.
2. Patented high frequency antenna, mounting height is 15m Max, suitable to install in most of warehouses.
3. Supports high-sensitivity and low-sensitivity modes (for metal ceilings, metal reflector mounting environments).
4. Work with 1-10V dimmable LED driver, easy to achieve 2-step or 3-step dimming function.
5. New patented remote control to adjust the launch angle, avoid malfunction.
6. Dim+/Dim- function, daylight harvesting function
7. 2 years warranty.
*Extended warranty optional

| | | |
|----------------------|-------------------------|---|
| Input | Operating Voltage Range | 108-305VAC 50/60Hz |
| | DC Input Voltage | N/A |
| | Rated Voltage | 120-277VAC 50/60Hz |
| | No-load Power | N/A |
| | Stand-by Power | <1W |
| Surge Test | | L N:1kV |
| Output | Working Mode | ON/OFF, 1-10V Dimming |
| | Type of Load | Inductive or resistive Load |
| | Load Capacity | 120VAC: 4A; 220-277VAC: 3A |
| | 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%, 20%, 30%, 50% |

| | | |
|--------------------------|---------------------|--|
| Dim Interface | Synchronous Control | N/A |
| | High Low-level | N/A |
| | PWM Control | N/A |
| Sensor Parameters | Operating Frequency | 5.8 GHz ±75 MHz, ISM band |
| | Transmitting power | 0.5mW Max. |
| | Hold time | 5s/30s/1min/3min/5min/10min/20min/30min |
| | Stand-by dim Level | 10%/20%/30%/50% |
| | Stand-by Period | 0s/10s/1min/3min/5min/10min/30min/+∞ |
| | Detection Area | 25%/50%/75%/100% |
| | Daylight Sensor | Daylight threshold:5lux/15lux/30lux/50lux/100lux/150lux/Disable(no shadow or ambient light diffuse reflection) |
| | Detecting Range | See detection pattern |
| | Mounting Height | 15m Max. |
| | Detection Angle | 150° (wall mount) , 360° (ceiling mount) |

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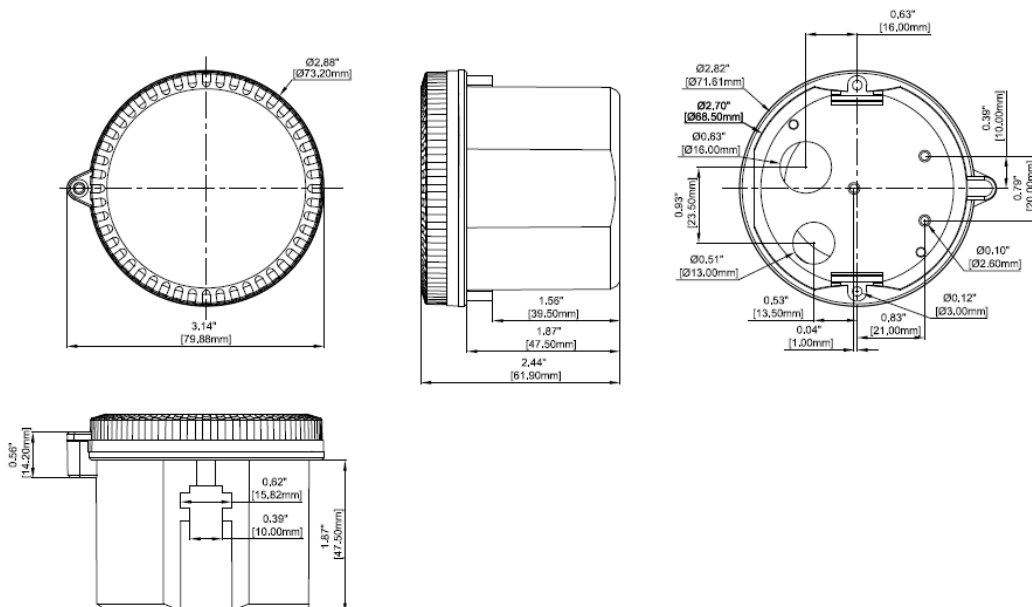
SR-HF-1005

| | | | | | |
|------------------------------|-----------------------|--|---------------------|--|-------------------|
| Operating Environment | Operating Temperature | -35°C...+55°C | Wiring color | Sheath: Black Core: Red,White,Black,Gray ,Purple (US); Blue,Brown, Gray, Red, Purple (Europe, Australia) | |
| | Storage Temperature | -40°C...+80°C humidity:10%-95% (non-condensing) | | IP Rating | IP65 |
| | Safety standards | IEC60669-2-1, IEC60669-1AS/NZS 60669.1, AS/NZS 60669.2.1UL60730-1 | | | Others |
| Certificate Standards | EMC standards | EN55015, EN61000-3-2, EN61000-3-3, EN61547AS/NZS CISPR 15, AS/NZS 4268 FCC Part 15C, Part 15BEN 60950-1, EN301489-1, EN 201489-3, EN300440 | Installation | Independent | |
| | Environment Request | Compliant to RoHS | Dimension | (ΦxH)72*59mm | |
| | Certificate | cULus, CE, SAA, FCC, RED | Package | Instruction+ White box+ White box tags+ Clapboard+ Carton(K=A) | |
| Others | Wiring | SJTW,5*18AWG (USA); H05RR-F,5*18AWG (Europe,Australia) ; exposed line length: 810-830mm | | Warranty | 2 years warranty. |

*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.

Dimension drawing



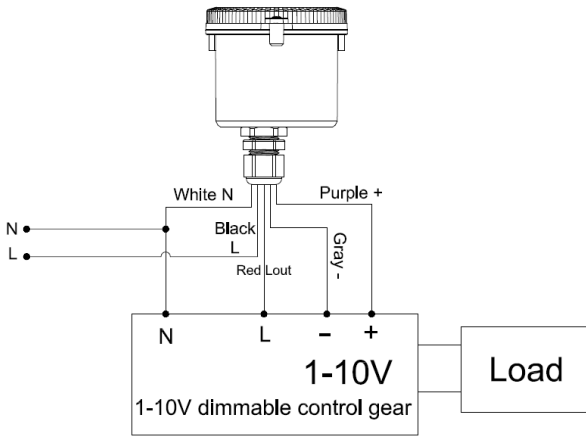
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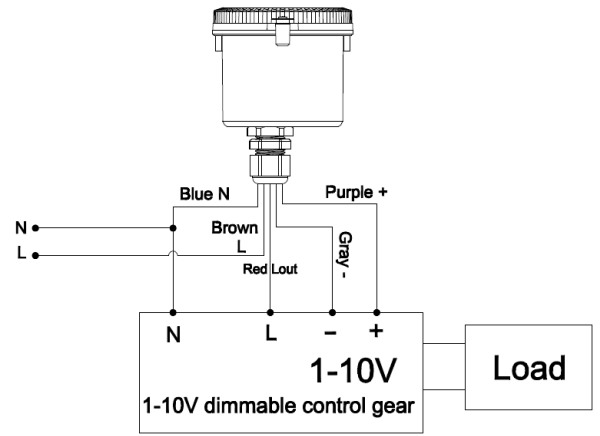
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Wiring

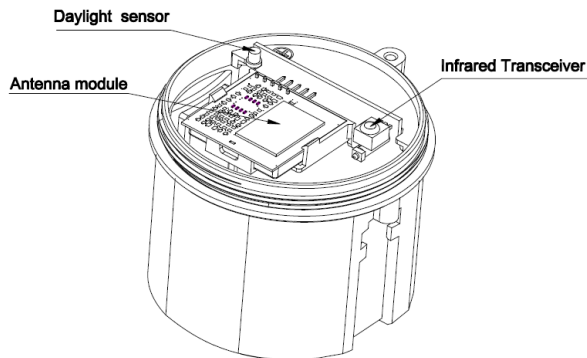


USA Version



Asia / Euro / Australia version

Function Diagram



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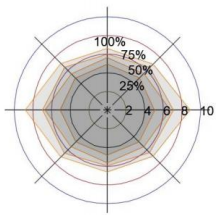
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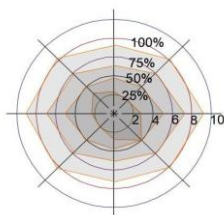
Radiation Pattern

Ceiling Mounting

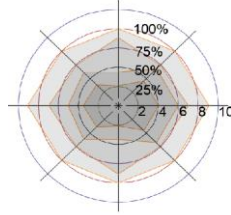
Ceiling mounted height:
3mSensitivity:100%
75%/50%/25%
Normal moving
(Speed:1m/s)



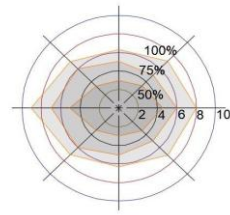
Ceiling mounted height:
6mSensitivity:
100%/75%/50%/25%
Normal moving
(Speed:1m/s)



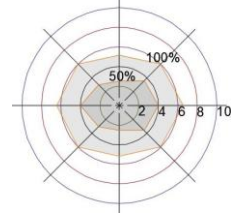
Ceiling mounted height:
9mSensitivity:
100%/75%/50%/25%
Normal moving
(Speed:1m/s)



Ceiling mounted height:
12mSensitivity:
100%/75%/50%
Normal moving
(Speed:1m/s)



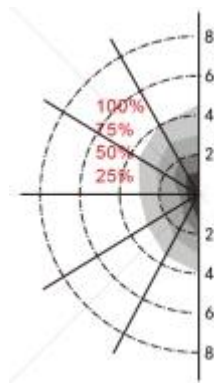
Ceiling mounted height:
15mSensitivity:
100%/75%
Normal moving
(Speed:1m/s)



*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: 2mSensitivity:
100%/75%/50%/25%



Normal moving (Speed : 1m/s)