

Dimming Sensor Cum Driver

30W

PRODUCT DESCRIPTION

- Compact size design, can be built-in most of light fixtures.
- Integrated motion sensor and dimmable LED driver, simple connection.
- DIP setting allows the user easy to adjust sensor parameters.
- 2 years warranty (Extended warranty optional).



Item Number: **QSR-HF-DS-30**

INPUT

Operating Voltage Range	198-264V AC, 50Hz/60H
Rated Voltage	220-240V AC, 50Hz/60Hz
Input Current	0.17A Max.
Load Power	≥0.90 (230V full load)
Stand-by Power	≤1W
Working efficiency	86% Max.@230V AC(full load)
Wiring method	Press terminal, wire diameter: 0.5-0.75mm ²

OUTPUT

Working Model	Constant current
Type of Load	LED
No-load output voltage	50V DC Max
Full load power	30W Max
Load output voltage range	22-42V DC
Load output current	350mA/550mA/600mA/700mA
Wiring method	Press terminal, wire diameter: 0.5-0.75mm ²

SENSOR PARAMETERS

Operating Frequency	5.8 GHz ±75 Mhz, ISM Band.
Transmitting power	1mW Max.
Hold time	5S/1min/5min/10min
Stand-by DIM Level	10%/25%
Stand-by Period	0S/ 1min/ 10min/ +∞
Detection Area	50%/100%
Daylight Sensor (ON/OFF)	5Lux/25Lux/50Lux/Disable
Detecting Radius	4-6m (mounting height 3m) (see note2)
Mounting Height	6m Max.
Detecting Angle	150° (Wall mounted), 360° (Ceiling mounted)

WIRELESS MODULE

Operating Frequency	N/A
Transmitting power	N/A
Transmitting distance	N/A
Modulation mode	N/A
Number of coding	N/A

OPERATING ENVIRONMENT

Operating Temperature	-25°C...+50°C
Storage Temperature	-40°C...+80°C, Humidity: 85% (Non-condensing)

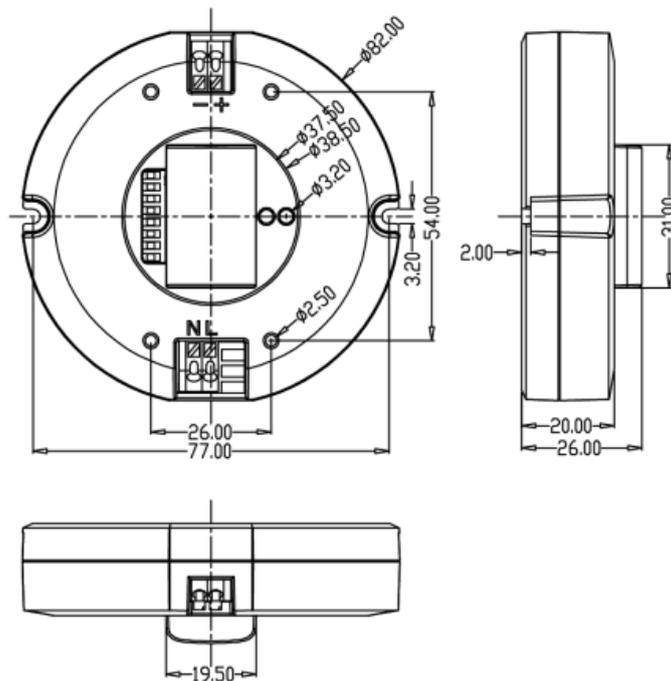
CERTIFICATE STANDARDS

Safety standards	EN61347-1, EN61347-213, AS/NZS 61347.2.13
EMC standards	EN55015, EN61547, EN61000-3-2, EN61000-3-3
Requirement	Compliant to RoHS
Certificate	CE, SAA
IP Rating	IP20
Protection Class	Class II
Installation	Built-in installation
Dimension	Φ82mm, H 26mm
Net Weight	86.2g
Package	Bubblebag + Clapboard + Carton(K=A)
Warranty	30,000h

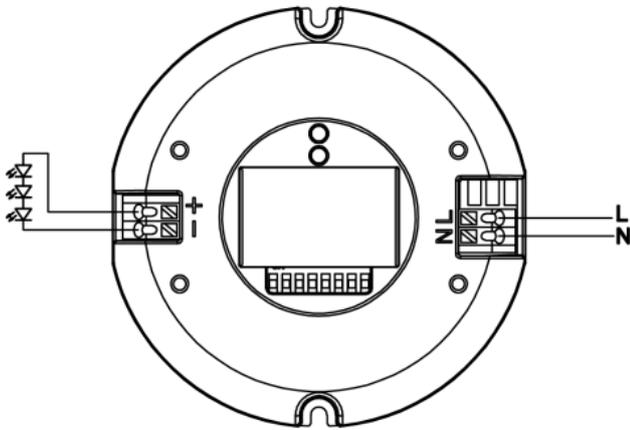
Note

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.

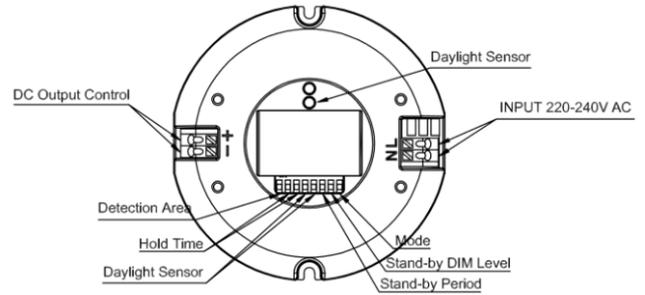
DIMENSION DRAWING



WIRING



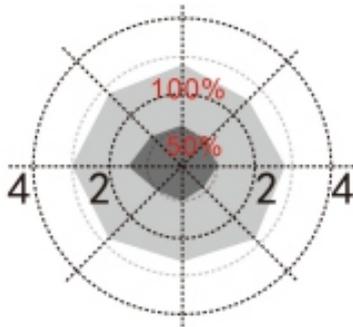
FUNCTION DIAGRAM



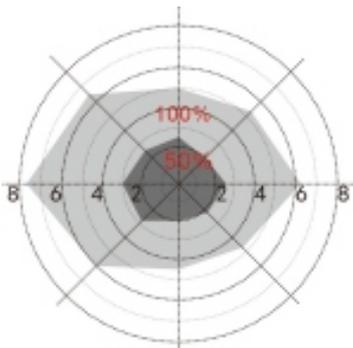
*The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.

RADIATION PATTERN (CEILING MOUNTING)

Ceiling mounted height: 3m
Sensitivity: 100%/50%

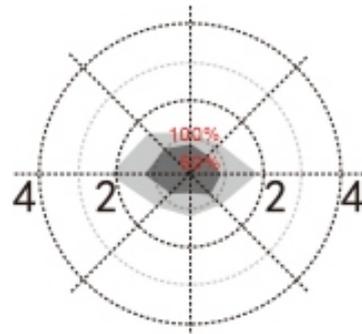


Normal moving (Speed:1m/s)

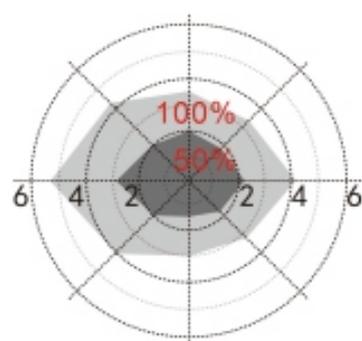


Slow moving (Speed: 0.3m/s)

Ceiling mounted height: 6m
Sensitivity:100%/50%



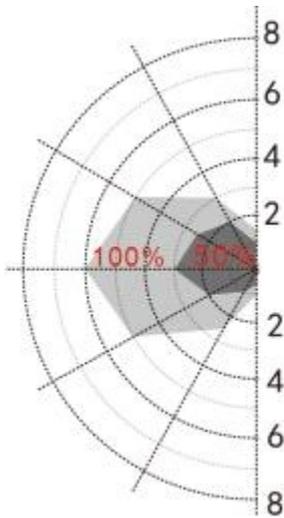
Normal moving (Speed:1m/s)



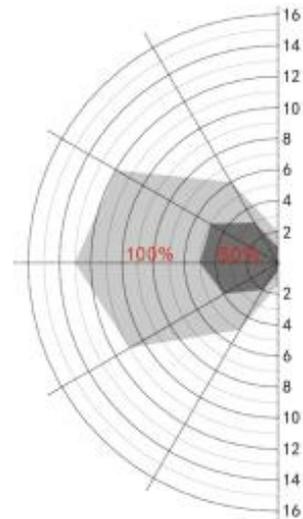
Slow moving (Speed: 0.3m/s)

RADIATION PATTERN (WALL MOUNTING)

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



Normal moving (Speed : 1m/s)



Slow moving (Speed 0.3m/s)

DIP SWITCH SETTING

DETECTION AREA (SENSITIVITY)

	1	
I	On	100%
II	-	50%

HOLD TIME

	2	3	
I	On	On	5S
II	On	-	1 Min
III	-	On	5 Min
IV	-	-	10 Min

DAYLIGHT SENSOR

	4	5	
I	On	On	5 Lux
II	On	-	25 Lux
III	-	On	50 Lux
IV	-	-	Disable*

*Disable means the daylight sensor does not work. The sensor will turn on light once motion is detected regardless of ambient light level.

STAND BY PERIOD

	6	7	
I	On	On	0S
II	On	-	1 Min
III	-	On	10 Min
IV	-	-	+∞

STAND BY DIM LEVEL

	8	
I	On	10%
II	-	25%

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 move

Factory Setting

- 1) Detection Area: 100% Hold Time: 5s Daylight Sensor: Disable, Stand-by DIM Level:25%, Stand-by Period:+∞

Application Notice

Be sure to power off before adjusting DIP switch set