

SPECIFICATION

628V RC
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CUSTOMER APPROVED

PRODUCT DIRECTOR APPROVED	SALES CHECKED	R&D CHECKED	PREPARED
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1. Features



- 1) Operating voltage 120~277V AC
- 2) Mounting height is 12m Max
- 3) Supports high-sensitivity and low-sensitivity modes (for metal ceilings, metal reflector mounting environments)
- 4) Work with 0-10V dimmable LED driver, easy to achieve 2-step or 3-step dimming function
- 5) M20 side mount, fit for linear highbay and tri-proof light
- 6) Dim+/Dim- function, daylight priority function
- 7) 5 years warranty

2. Parameter

	Operating Voltage Rage	108-305VAC 60Hz
	DC Input Voltage	N/A
Input	Rated Voltage	120-277VAC 60Hz
	No-load Power	N/A
	Stand-by Power	<1W
	Surge Test	L N: 1kV
Output	Working Mode	0-10VDimming
Output	Type of Load	LED(0-10V LED driver)
Dim Interface	0-10V Dimming	< 50mA (Non-constant source)
Dilli liliteriace	0-10 v Dillilling	10%, 20%, 30%, 50%
	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%(1.4-1.6V), 20%(1.9-2.1V), 30%(2.9-3.1V), 50% (4.9-5.1V)
	Stand-by Period	0s/10s/1min/3min/5min/10min/30min/+∞
	Detection Area)	25%/50%/75%/100%
Sensor		Daylight threshold:5lux/15lux/30lux/50lux/100lux/150lux/Disable(no
Parameters		shadow or ambient light diffuse reflection)
	Daylight Sensor	Daylight priority(5lux/15Lux/30Lux/50Lux)/150Lux
		100Lux/200Lux
		150Lux/300Lux
	Detecting Range	See detection pattern
	Mounting Height	12m Max.
	Detection Angle	150° (wall mount), 360° (ceiling mount)
Operating	Operating Temperature	-35℃+55℃

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Version: A0

Environment	Storage Temperature	-40°C+80°C humidity:10%-95% (non-condensing)
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Certificate Standards		IEC60669-2-1, IEC60669-1
	Safety standards	AS/NZS 60669.1, AS/NZS 60669.2.1
		UL60730-1
		EN55015, EN61000-3-2, EN61000-3-3, EN61547
	EMC standards	AS/NZS CISPR 15, AS/NZS 4268 FCC Part 15C, Part 15B
		EN 60950-1, EN301489-1, EN 201489-3, EN300440
	Environment Request	Compliant to RoHS
	Certificate	CE
	Wiring	UL1015, 2*18AWG, exposed line length 810mm
		UL1015, 2*22AWG, exposed line length 810mm
	Wiring color	L(Brown), N(Blue), 0-10V+(White), 0-10V- (Black)
	IP Rating	IP65
	Protection Class	Class II
Others	Installation	M20 side mount
Pac Net	Dimension	See dimension
	Package	White paper box+cartons
	Net Weight	85g
	Lifetime	5 years warranty @Ta 230V full load
	(A)	, , , , , , ,

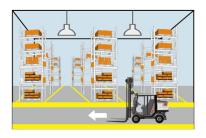
High Bay Sensor for Warehouse

Note 1. "N/A" means not available.

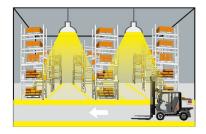
2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.

3. Function

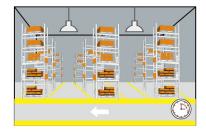
1) On/OFF Function (stand-by period be set to "0"s)



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



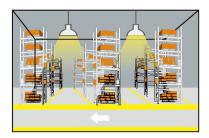
With insufficient ambient light, the sensor switches on the light when motion is detected.



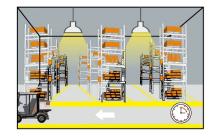
3 After elapse of hold time, the sensor switches off the light when no motion is detected.



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

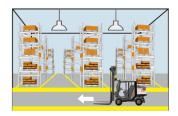




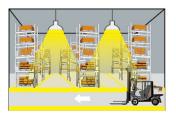


- If there is no motion detected, the light will be remained at a low light level all the time.
- When motion is detected, the sensor will switch on the light to 100% brighteness
- After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

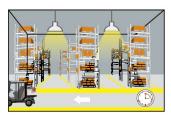
3) 3-step dimming function (stand-by period be set to "10s/1min/3min/5min/10min/30min")



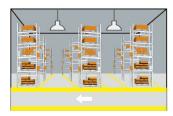
With sufficient ambient light, the light will not be switched on even if with motion signal.



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

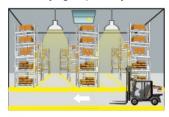


3 After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.



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

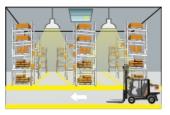
Daylight priority (stand-by period set to +∞)



Lamp turns on at low light level 10% in the night.



Motion detected, lamp automatically lights up to 100%.

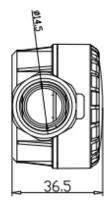


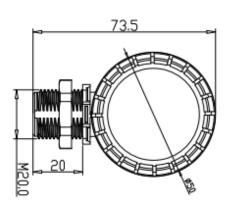
3 After hold time, the lamp gradually dims to a low light level 10% if no movement detected.



4 Lamp turns off after dawn.

4.Dimension (mm)



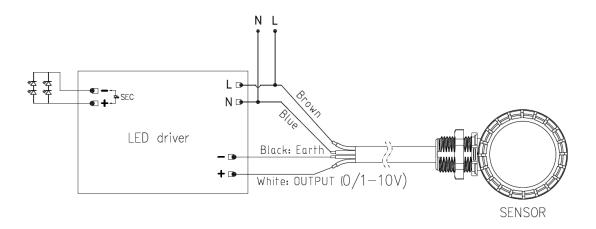


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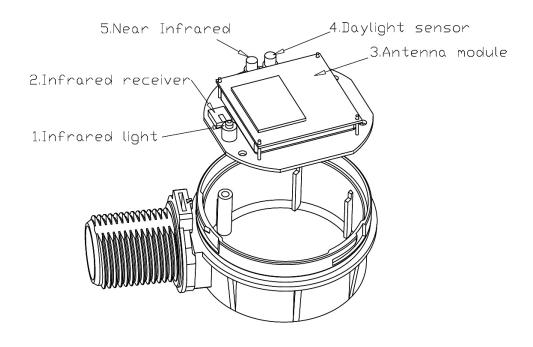


5. Wiring



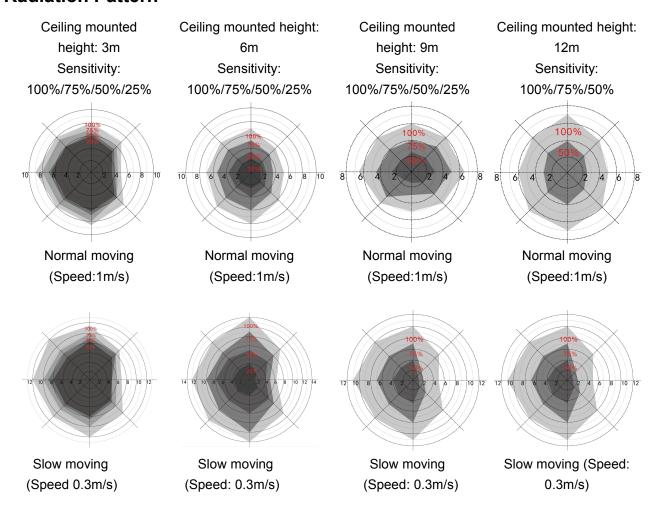
^{*}The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.

6. Function Diagram



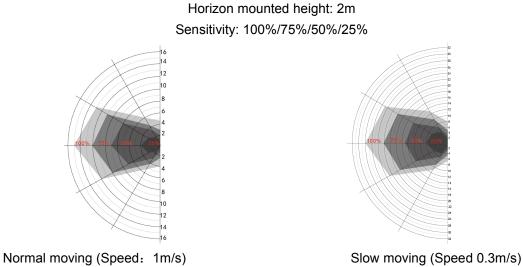


7. Radiation Pattern



^{*}Only 100%/75%/50% detection sensitivity is workable when installed at 12m mounting height. 25% sensitivity is not able to detect motion signal.

Wall mounting

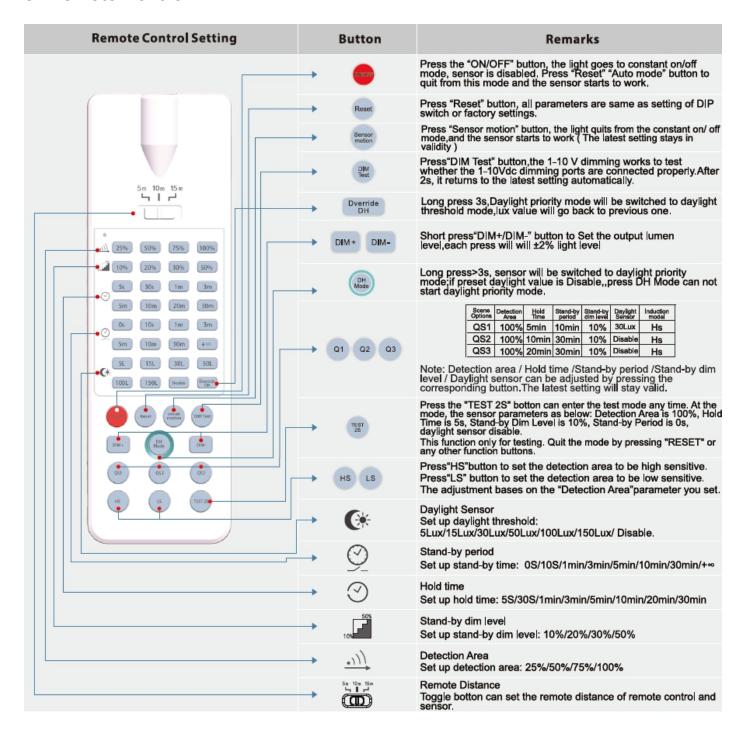


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8. Remote Control





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. 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..Lux level detected by sensor 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.