



## 1. Features



- 12V DC input, for DC systems or LED power supplies with 12V DC auxiliary power output
- 0-10V dimming port, 3 or 2 step dimming function
- Newly patent design sensor antenna with two detection mode: high sensitivity detection and interference immunity detection. (suitable for installation environments with many metal reflective surfaces)
- 15m maximum installation height, suitable for most warehouses
- Match Zhaga Book 18 base, plug in design
- Dim+/Dim- to set occupancy light level
- Daylight priority function
- 75,000hr rated lifetime
- 5 years warranty

## 2. Parameter

<b>Input</b>	DC Input Voltage	12 DC ±1V
	Rated Voltage	12V DC
	Voltage Ripple	<300mVp-p
	Stand-by Power	<0.3W
	Wiring	By Zhaga Book 18 connector
<b>Output</b>	Working Mode	0-10V DC
	Wiring	By Zhaga Book 18 connector
<b>Dim Interface</b>	0-10V Dimming	< 50mA (Non-constant source)
<b>Sensor Parameters</b>	Operating Frequency	5.8 GHz ±75 MHz, ISM Band.
	Transmitting power	1mW 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%
	Daylight Sensor	Daylight threshold: 5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable Daylight priority: ON/OFF value (5lux/15Lux/30Lux/50Lux)/150Lux 100Lux/200Lux 150Lux/300Lux
	Detecting Radius	See detection pattern
Mounting Height	15m Max	



	Detecting Angle	150°(wall mounting) 360°(ceiling mounting)
<b>Operating Environment</b>	Operating Temperature	-35 ...+70
	Storage Temperature	Temperature: -40 ...+80 ; Humidity: 10%-95% (non-condensing)
<b>Certificate Standards</b>	Safety standards	EN60669-2-1, EN60669-1
	EMC standards	EN55015, EN61000-3-2, EN61000-3-3, EN61547
	Environmental Requirement	Compliant to RoHS
	IP Rating	IP65 when mount with Zhaga Block 18 connector
	Protection Class	Class II
	Installation	External mounting,integrated mounting
	Dimension	See dimension
	Package	White paper box
	Net Weight	55g
Lifetime	5 years warranty@Ta 230V full load	

Note

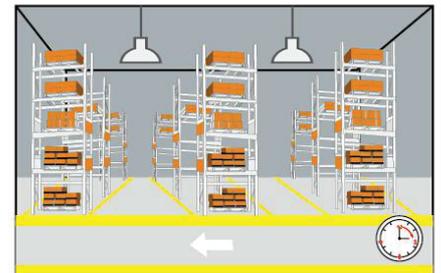
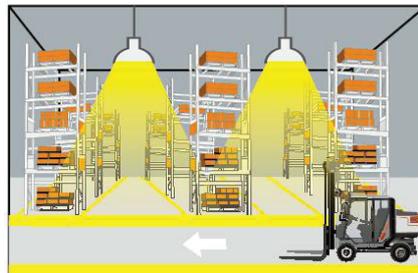
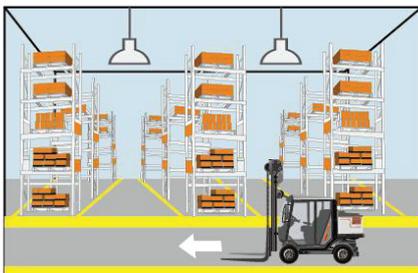
1. "N/A" means not available.
2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.3m/s.

**UFP Sensor Default Setting**

Detection: 100%  
 Hold time: 5S  
 Standby period: 0S  
 Standby dim: 10%  
 Daylight: Disable

### 3. Function

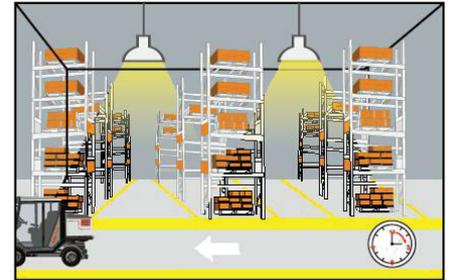
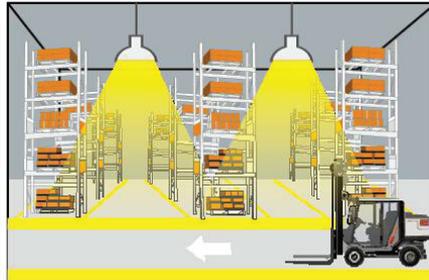
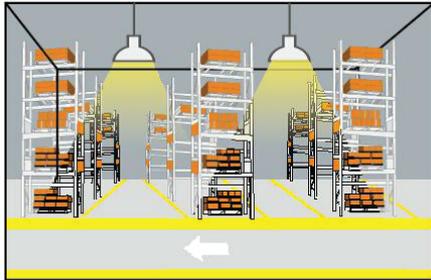
1) On/OFF Function (stand-by period be set to "0"s)



- 1 With sufficient ambient light, the light will not be switched on even if with motion signal.
- 2 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 “+∞”)

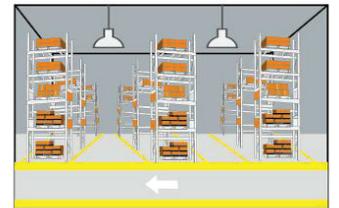
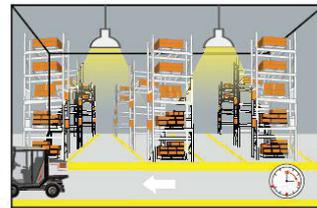
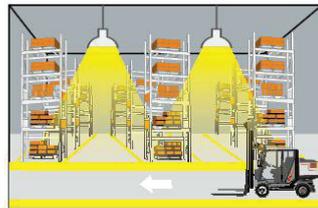
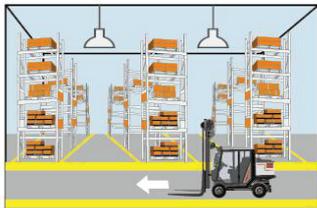


1 If there is no motion detected, the light will be remained at a low light level all the time.

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

3 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”)



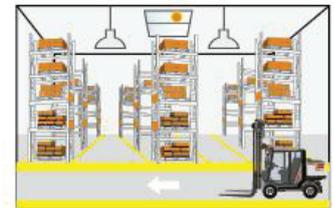
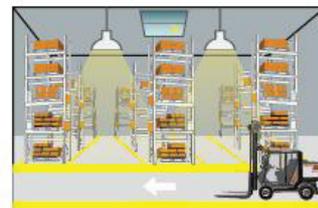
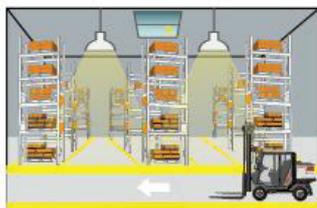
1 With sufficient ambient light, the light will not be switched on even if with motion signal.

2 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.

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

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



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

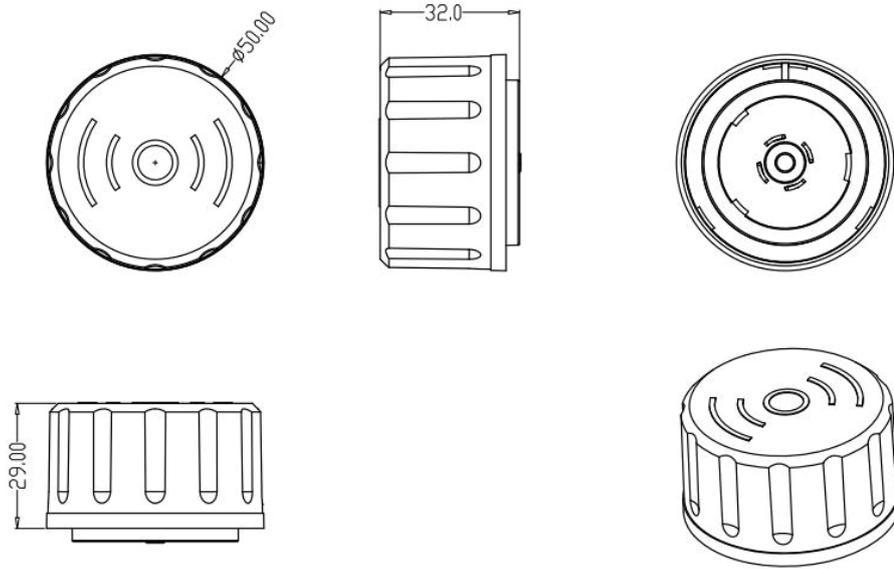
2 Motion detected, lamp automatically lights up to 100%.

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

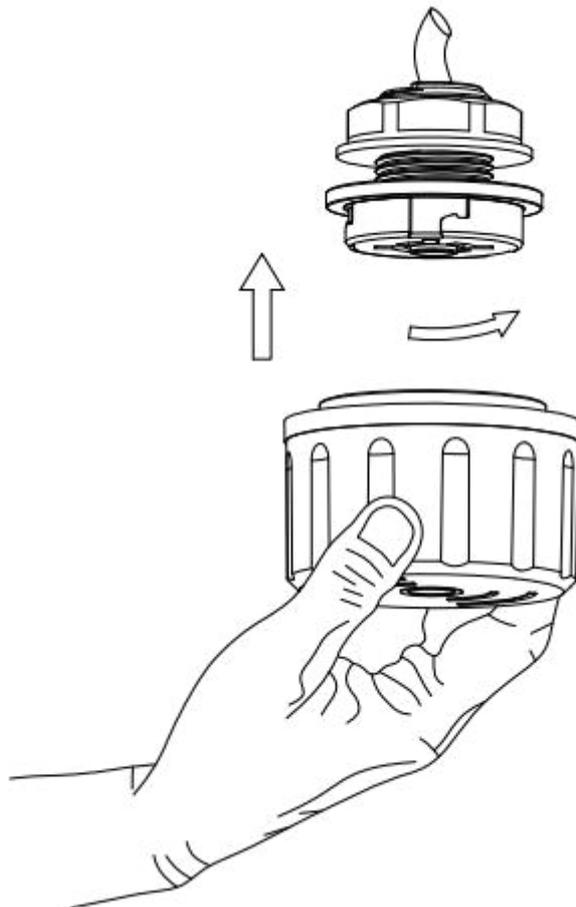
4 Lamp turns off after dawn.



#### 4. Dimension (mm)



#### 5. Installation (Match Zhaga Book 18 connector)

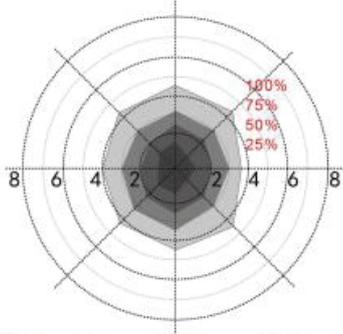




## 6. Radiation Pattern (Typical data)

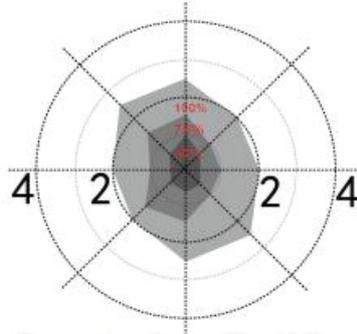
### Ceiling mounting

Ceiling mounted height: 3m  
Sensitivity: 100%/75%/50%/25%



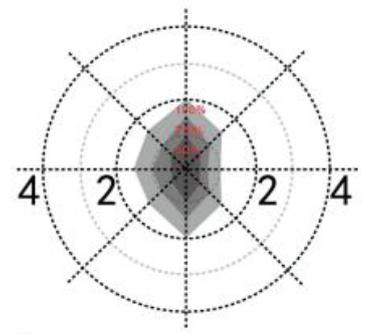
Normal moving (Speed:1m/s)

Ceiling mounted height: 10m  
Sensitivity: 100%/75%/50%

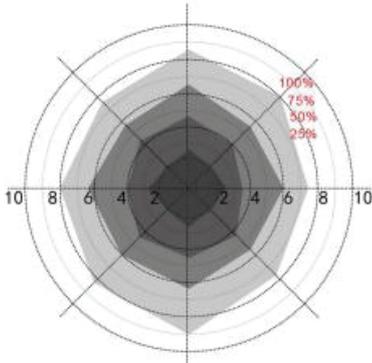


Normal moving (Speed:1m/s)

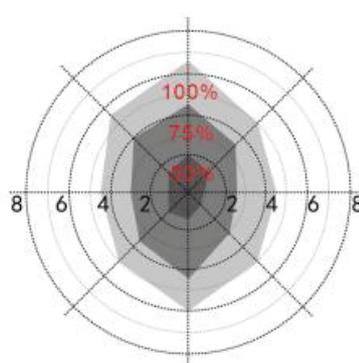
Ceiling mounted height: 15m  
Sensitivity: 100%/75%/50%



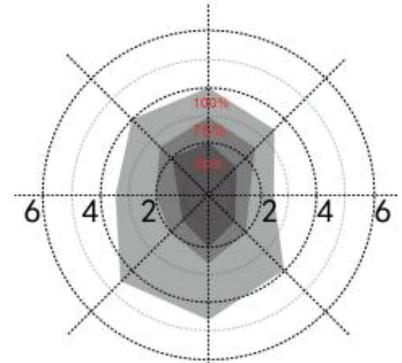
Normal moving (Speed:1m/s)



Slow moving (Speed 0.3m/s)



Slow moving (Speed: 0.3m/s)

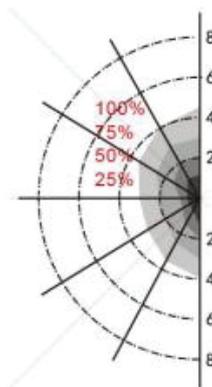


Slow moving (Speed: 0.3m/s)

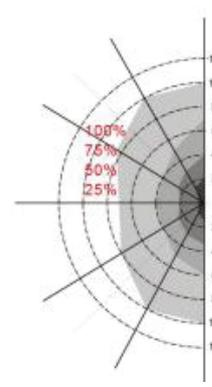
\*Only 100%/75%/50% detection sensitivity is workable when installed at 15m mounting height. 25% sensitivity is not able to detect motion signal.

### Wall mounting

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



Normal moving (Speed : 1m/s)



Slow moving (Speed 0.3m/s)