

SZG111 series of microwave led high bay light



Applications:

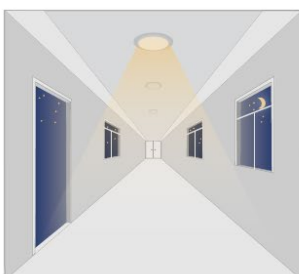
- Warehouses
- Plant and workshop
- Maintenance workshop
- Equipment workshop
- Outdoor canopy
- Logistics Center
- Exhibition Hall

Description of performances:

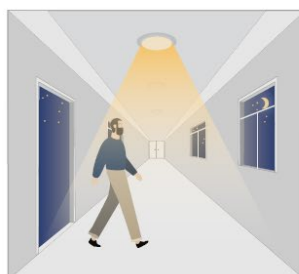
luminous efficiency of led chip	light efficacy of luminaire	energy efficiency rating of luminaire	Induction dimming	microwave induction height	microwave induction mode
210 lm/W	165 lm/W	Class 2	microwave induction dimming	Max. 15m	light priority mode motion sense dimming three stage dimming
bluetooth remote control	power efficiency	total harmonic distortion	beam angle	shell material	IP protection
APP/bluetooth gateway	≥95%	≤10%	120°/90°/60°	ADC12 die-cast aluminum	IP66

Functions of microwave sensor:

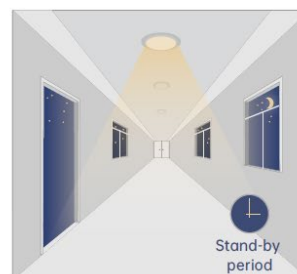
1. Light sensing priority function



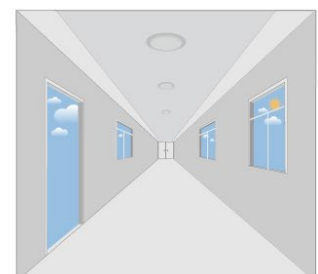
When the ambient brightness is less than the preset light on value, the light will turn on automatically.



The sensor detects someone moving and the lights are on 100%.

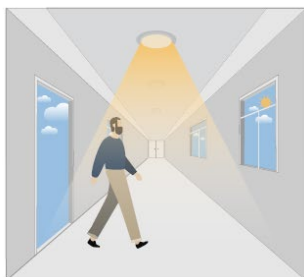


After the delay time is over, no one moves in the sensing area, and the brightness of the light dims and enters the waiting time state, until it is detected that someone is moving again, and the light is fully on, following this cycle.

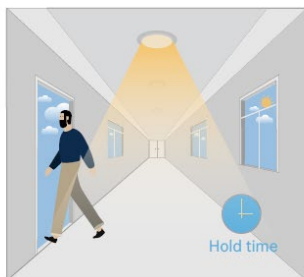


When the ambient light brightness exceeds the light off value, the light automatically turns off.

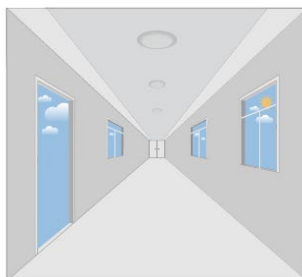
2. Motion sensing dimming



After detecting movement, the sensor automatically turns on 100% full brightness.

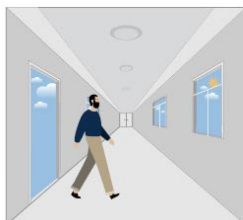


After the sensor cannot detect movement, it automatically enters a delay time.

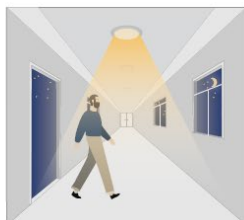


Automatically adjust to low light after a delay time.

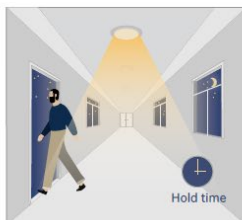
3. Three stage dimming



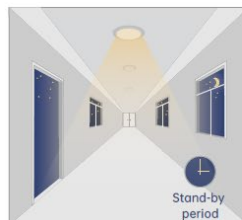
When the ambient light is bright enough, even if motion is detected, the sensor will not light



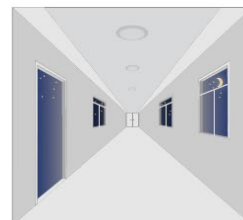
When the ambient light brightness is insufficient and movement is detected, the sensor automatically lights up.



After the sensor cannot detect movement, it automatically enters a delay time; The light will be on 100% during the delay period.

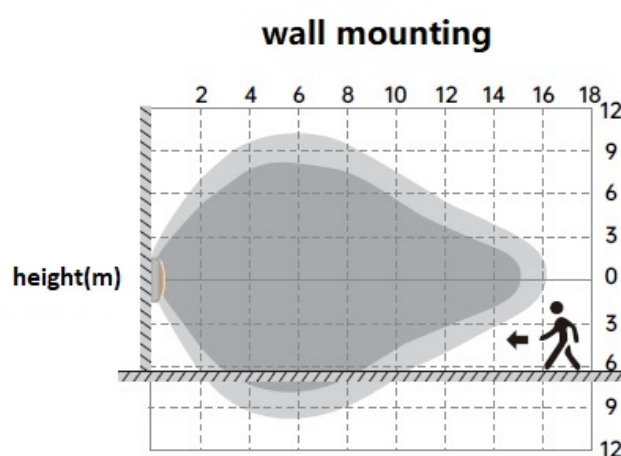
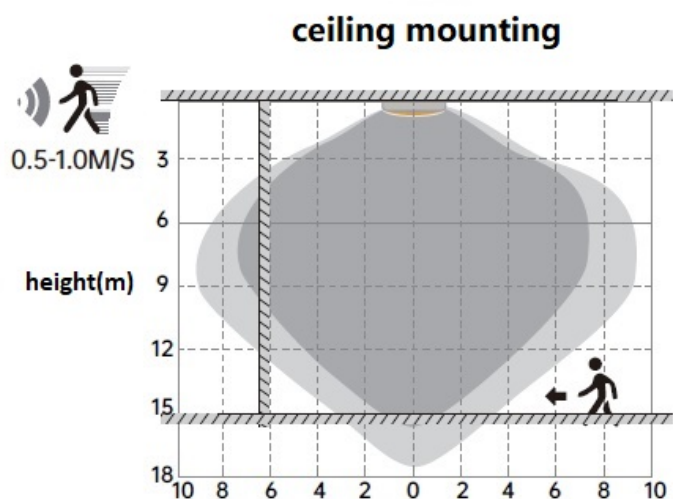


After the delay time, the sensor automatically enters the waiting time to maintain the waiting brightness.



After the waiting time ends, the sensor automatically turns off the light.

Microwave induction range diagram



 strong coverage signal
  weak coverage signal

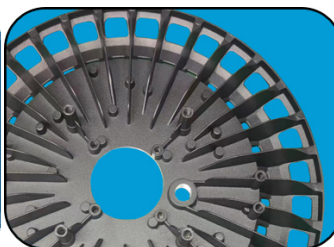
Product details:



secondary energy-saving dimming of microwave sensor



circular lens with more led chips and higher light efficiency



precision die-casting aluminum heat dissipation body



precision machined aluminum substrate bonding surface, fast heat dissipation

Technical parameters:

Parameter items	100W	150W	200W
Input voltage (V)	90-305Vac	90-305Vac	90-305Vac
Power efficiency	95%	95%	95%
Power factor	≥0.95	≥0.95	≥0.95
Surge lightning protection (V)	6000	6000	6000
Total harmonic distortion	≤10%	≤10%	≤10%
Luminous efficiency for led (lm/W)	210	210	210
Light efficacy for luminaire (lm/W)	165	165	165
Energy efficiency rating of lamp	Class 2	Class 2	Class 2
Luminous flux of lamp (lm)	16500±5%	24800±5%	33000±5%
Correlated color temperature (K)	3000/4000/5000/6000	3000/4000/5000/6000	3000/4000/5000/6000
Color rendering index (Ra)	≥75	≥75	≥75
Beam angle (°)	60°/90°/120°	60°/90°/120°	60°/90°/120°
Lifespan of led chip (h)	≥100,000	≥100,000	≥100,000
Energy-saving dimming	Microwave sensor	Microwave sensor	Microwave sensor
Mounting height of sensor (m)	≤15	≤15	≤15
microwave induction radius (m)	5	5	5
Working temperature (°C)	-35°C - +50°C	-35°C - +50°C	-35°C - +50°C
IP protection	IP66	IP66	IP66
Dimensions (mm)	φ280*175	φ330*182	φ380*185
Weight (Kg)	2.5	3.2	3.8
Mounting mode	Ring/U-bracket	Ring/U-bracket	Ring/U-bracket
Warranty	5 year	5 year	5 year

Note: 1. According to GB 30255-2026: the luminous efficacy of Class 1 energy-efficient luminaire is 170-180 lm/W; for Class 2, it is 145-155 lm/W; and for Class 3, it is 100-110 lm/W.

2. Energy saving rate is compared with the conventional luminaire of class 3 energy efficiency rating.