



Installation Instructions: 70202/3

**Read these instructions before installation and retain for future reference.
This equipment should be installed by a competent electrician**

Important Information

We recommend that luminaires are installed by a qualified electrician ensuring the installation complies with current IEE wiring regulations BS7671:2018 & local building control..

- BELL will not accept responsibility for any claims arising from a poor installation.
- Always switch off mains supply before installing.
- All tests should be carried out in accordance to EN 50172:2004

This product may contain substances that can be hazardous to the environment if not disposed of properly. Electrical and electronic equipment should never be disposed of with general household waste but must be separated for its correct treatment and recovery.

Where possible recycle your packaging.



【Product Features】

- Patented Mini Coupling DiPole Antenna
- Long strip shell, miniature antenna design, no shading
- Ultra-low RF power output, harmless to human health
- Support remote control and DIP switch to adjust sensing parameters
- Low side lobe, high adaptability to metal environment
- Not affected by temperature, humidity, noise, airflow, dust, light and other environments



【Parameter】

Input	
Rated voltage	
Working current	70202 16±2mA
Ripple voltage	
Output	
Output signal	70202 PWM dimming signal
Daylight Sensor	
Daylight sensor	< 100mVp-p Daylight priority
Sensing Parameters	
Working frequency	5.8GHz ±75MHz, ISM band
Transmit power	1mW Max.
Detection range (radius)	Ceiling installation 3m high: r≥4m@0.3m/s, r≥2.5m@1m/s; Horizontal installation 2m high: r≥8m@0.3m/s, r≥4m@1m/s Test conditions : the product is set to 100% sensitivity , and there is no obvious occlusion in the room of 60 m ²
Installation height	3m (4m Max)
Environment	
Working temperature	Built-in: -25~60℃
Storage temperature	-40℃~80℃, humidity ≤85% (non-condensing)
Certification Standards	
Certified	CE , RED (Pending)
Environmental requirements	Comply with RoHS 2.0 , Reach requirements
IP Rating	IP20
Other	
Wiring	3pin 2.0mm terminal
Installation requirements	built-in installation
Packaging requirements	Bubble bag + partition + outer box (K=A)
Net weight	10±2g
Lifetime	5 Years Warranty@Ta



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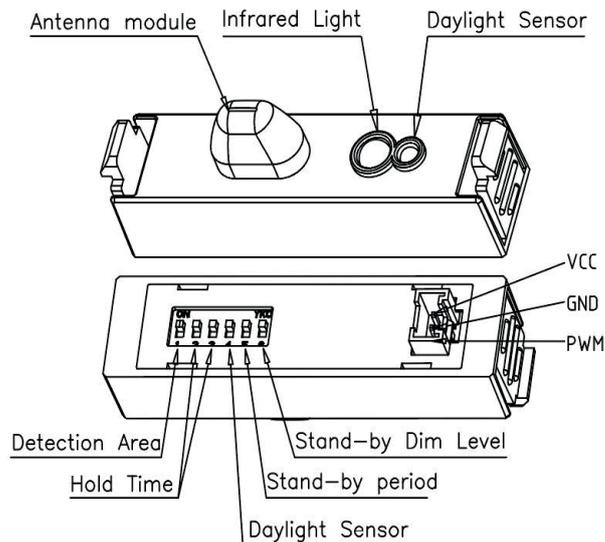
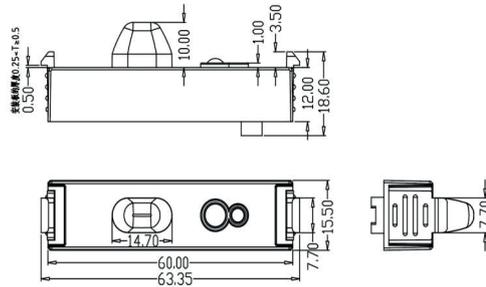
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70202	
<input type="checkbox"/> ON/OFF function	N/A
<input type="checkbox"/> Two-step dimming function	N/A
<input checked="" type="checkbox"/> Three-step dimming function	Stand-by Period be set to "5min/10min/30min"
<input type="checkbox"/> Daylight harvesting	N/A
<input checked="" type="checkbox"/> Daylight priority	Stand-by Period be set to "+∞"

【Diagram】

● Dimensions



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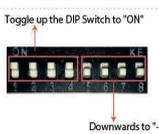
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【DIP Switch setting】

Toggle up the DIP Switch to "ON"

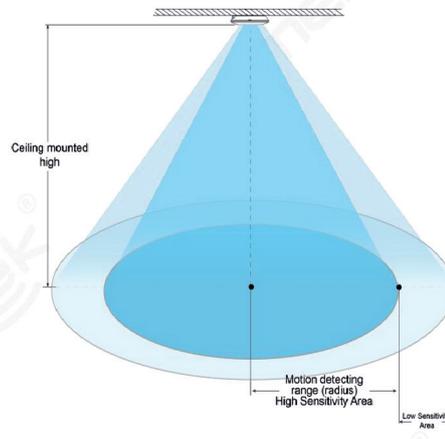


Downwards to "OFF"

ON ↑

Detection Area		Hold Time			Daylight Sensor	Stand-by DIM level	Stand-by Period
1	Detection Radius	2	3		4	5	6
–	100% Around 3 meters	–	–	5S	–	Disable	+∞
–		–	ON	1min		0%	
ON	50% Around 1.5 meters	ON	–	3min	ON	30Lux	ON
		ON	ON	10min		ON	20%
							ON
							15min

● radiation diagram





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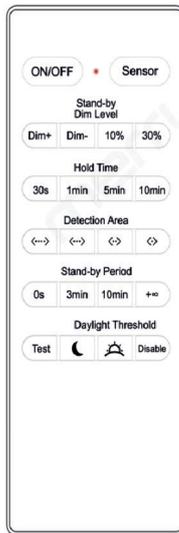
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● 70203



Button	Function	Description
ON/OFF	Normal ON/OFF	Pressing the ON/OFF button, sensing function is canceled and the light will remain ON/OFF. Sensor has power-off memory function, that is: Power on again under the "ON" mode of the load lamp, the load lamp enters "ON" mode. Power on again under the "OFF" mode of the load lamp, the load lamp enter the normally "OFF" mode after on for 2s
Sensor	Recover sensing	Pressing this button to recover sensing function.
Dim+	Increasing Brightness	Pressing this button continuously, the brightness will increase. When adjusting the brightness at full brightness, ON/OFF mode is still available.
Dim-	Reducing Brightness	Pressing this button continuously, the brightness will reduce. When adjusting the brightness at full brightness, ON/OFF mode is still available.
Stand-by Dim Level	Low Brightness	10%, 30%
Hold Time	100% Brightness	30s, 1min, 5min, 10min
Detection Area	Detection Area	100% ↔, 75% ↔, 50% ↔, 25% ↔
Stand-by Period	Stand-by Time	0s, 3min, 10min, +∞
Test	TEST Button	Pressing this button, the light will turn off after 2 seconds. Restore to last sensing setting after power off.
Daylight Threshold	Threshold	15lux ☾, 50lux ☽, Disable

Date	Revision
30.6.25	1



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Sensitivity: 100% Hold time: 5s Daylight Sensor: Disable Stand-by period: 15min Stand-by Dim Level: 0%

【Application Notice】

- The sensor should be installed by a professional electrician. Please cut off the power before installing, wiring, changing the setting of the dial switch, etc.
- The sensing distance is related to factors such as the moving speed of the moving object, the size of the moving object, the installation height, the installation angle, whether the installation environment is open, and the material of the reflector. The detection distance given in the specification is a typical value, which is 165cm/65kg tester, and it is tested in an open indoor environment
- When the microwave sensor is installed on the wall, the detection distance will be greatly increased compared with that installed on the ceiling. If you use the wall installation method, please reduce the sensitivity to use or contact our company to confirm the use setting. The light sensitivity threshold is in a sunny environment, no shadows, and ambient light diffuse reflection conditions. In different time periods, climates, and environments, the illuminance value detected by the light sensor may be different
- Sensor parameters may need to be reconfigured in different installation environments, please refer to the following instructions or contact the manufacturer
- This sensor is only for indoor use, outdoor wind and rain, and surrounding moving objects will cause false triggering
- The installation height of the sensor product cannot exceed 6 meters, and the optimal height is 3 meters; the distance between the two sensors should be greater than 3 meters
- When the sensor is installed in a metal lamp, on a metal reflective surface, or in a narrow closed environment, microwaves will be reflected multiple times and cause false triggering. Please reduce the sensor sensitivity or contact the manufacturer for technical support.
- Please make sure that there are no moving signals such as fans, DC motors, sewer pipes, air outlets, etc. around the sensor, otherwise the sensor may cause false triggering.
- Microwaves cannot penetrate metal, avoid installing in closed or semi-closed metal lamps, and there should be no metal or glass blocking the product
- Sensor with different PWM / 0-10V driver, low light effect may be different
- A DC regulated power supply with stable output voltage and low ripple coefficient must be used. The ripple of the power supply should be less than 100mV ; the load current should be greater than 25mA
- Product specifications and parameters may be optimized without prior notice