



BREATHING SENSOR

Model: AU-XBR700



Ceiling: 3m



IP20



Sensing area



Energy saving



3-2000 LUX

INTRODUCTION

Welcome to use AU-XBR700 Microwave Real Presence Sensor!

The product adopts microwave sensor mould with high-frequency electromagnetic wave (24GHz) and integrated circuit. It detects human breath, as long as people are present, the lights will remain on. When people leave, the lights will go out. It gathers automatism, convenience, safety, saving-energy and practical functions.

TECHNICAL SPECIFICATIONS

| Model | : AU-XBR700 |
|---------------------|--|
| Power Source | : 110-240V/AC 50/60Hz |
| HF System | : 24Ghz CW Radar, ISM Band |
| Transmission Power | : <10mW |
| Time Delay | : Min. 10Sec ±3Sec, Max. 12Min ±1Min |
| Rated Load | : 2000W (Incandescent), 1000W (LED Load) |
| Detection Range | : 360° |
| Detection Distance | : Ceiling: 3m (radius) |
| Ambient Light | : <3-2000LUX |
| Installation Height | : Ceiling: (2-4m) |
| Power Consumption | : Approx. 0.9W |
| No. of Wires | : 4 Wires |

FUNCTIONAL MODES

Can identify day and night

- It can work in the daytime and at night when it is adjusted on the “sun” position (max). It can work in the ambient light less than 3LUX when it is adjusted on the “3” position (min).

Adjustable sensitivity

- When the detection distance is less than 3M, it detects human breathing and keeps lamp on continuously. When the detection distance is 3-4.5M, it will be worked as a normal microwave sensor and detects human movement automatically

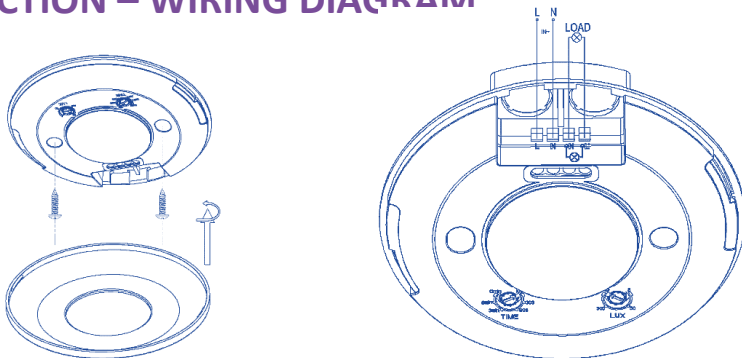
Adjustable time delay

- When it receives the second induction signals within the first induction, it will restart to time from the moment. Time-Delay is adjustable. It can be set according to the consumer’s desire. The minimum time is 10sec±3sec. The maximum is 12min±1min.

INSTALLATION INSTRUCTIONS

- Please move the upper cover with anti-clockwise whirl as per the diagram on the right.
- Connect the power and the load according to the connection-wire diagram.
- Fix the bottom on the selected position with the inflated screw.
- Install back the upper cover on the sensor, then you could switch on the power and test it.

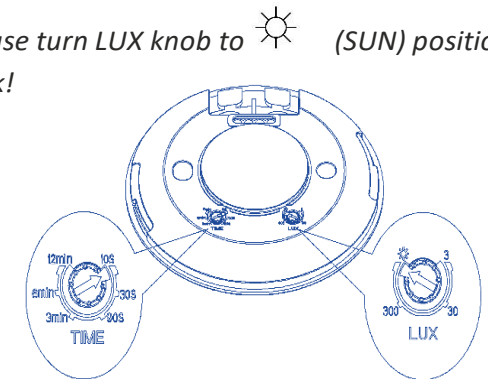
CONNECTION – WIRING DIAGRAM



TEST

- Turn the TIME knob anti-clockwise on the minimum (10s). Turn the LUX knob clockwise on the maximum (sun).
- When you switch on the power, the light will be on at once. And 10sec±3sec later the light will be off automatically. Then if the sensor receives induction signal again, it can work normally.
- When the detection distance is less than 3M, it can detect human breathing and keeps lamp on continuously. When the detection distance is more than 3m and then the lamp will be off after the settled time if there is no another movement.
- When the detection distance is 3-4.5M, it will be worked as a normal microwave sensor and detects human movement automatically.

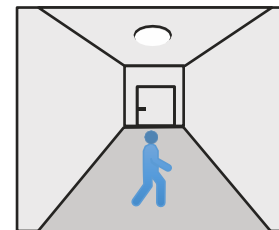
Note: When testing in daylight, please turn LUX knob to ☀ (SUN) position, otherwise the sensor could not work!



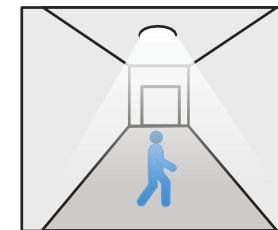
LUX FUNCTION CHECK

Daylight Function

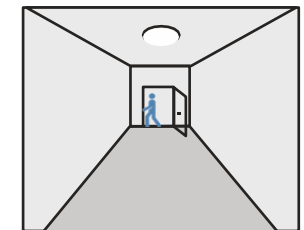
The hold time is set to 30 seconds, and LUX is set to 300. The light switches on when it detects movement, and it switches off after 30 seconds of no movement.



When the motion is detected with sufficient daylight (>300LUX), the light remains OFF.



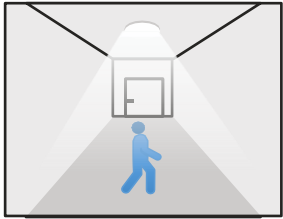
When the motion is detected with insufficient daylight (<300LUX), the light switches ON.



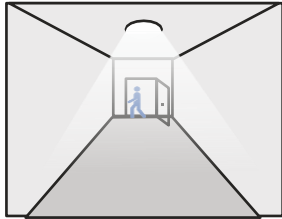
After the last detection and the present hold time-lapse (30 seconds), the light switches OFF.

No Daylight Function

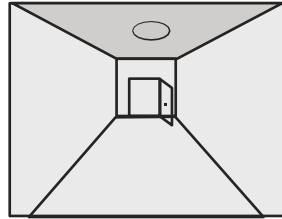
The hold time is set to 30 seconds, and LUX is set to ☀ or 2000. The light switches on when it detects movement, and when people leave, it switches off after the hold time is lapsed (30 seconds).



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



After the people leave the detection area, the light remains at 100% brightness within the hold time.

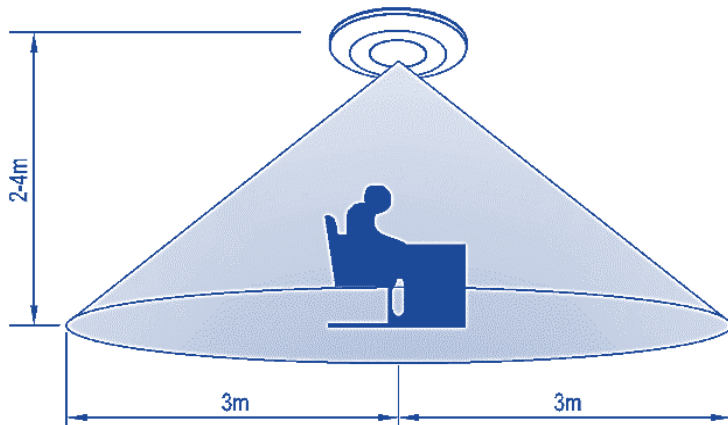


After the last detection and the present hold time-lapse (30 seconds), the light switches OFF.

SAFETY INSTRUCTIONS

- Electrician or experienced human can install it.
- Cannot be installed on the uneven and shaky surface.
- In front of the sensor there shouldn't be obstructive object affecting detection.
- Avoid installing it near the metal and glass which may affect the sensor.
- For your safety, please don't open the case if you find hitch after installation.

DETECTION PATTEN



APPLICATIONS



Class Rooms



Conference



Yoga Center



Office



Kitchen

TROUBLESHOOTING

| Malfunction | Cause |
|--|--|
| | Check the power and the load. |
| | Whether the indicator light is turned on after sensing? If yes, please check load. |
| The load will not work | If the indicator light does not turn on after sensing, please check if the working light corresponds to the ambient light. |
| | Please check if the working voltage corresponds to the power source. |
| | Please check the ambient temperature. |
| The sensitivity is poor | Please check if the signals source is in the detection fields. |
| | Please check the installation height. |
| The sensor can't shut automatically the load | If there are continual signals in the detection fields. |
| | If the time delay is set to the longest. |
| | If the power corresponds to the instruction. |