ALIBUS Series of intelligent lighting sensor

Installation and Use Manual V1.1

Acrel Electric Co., Ltd.

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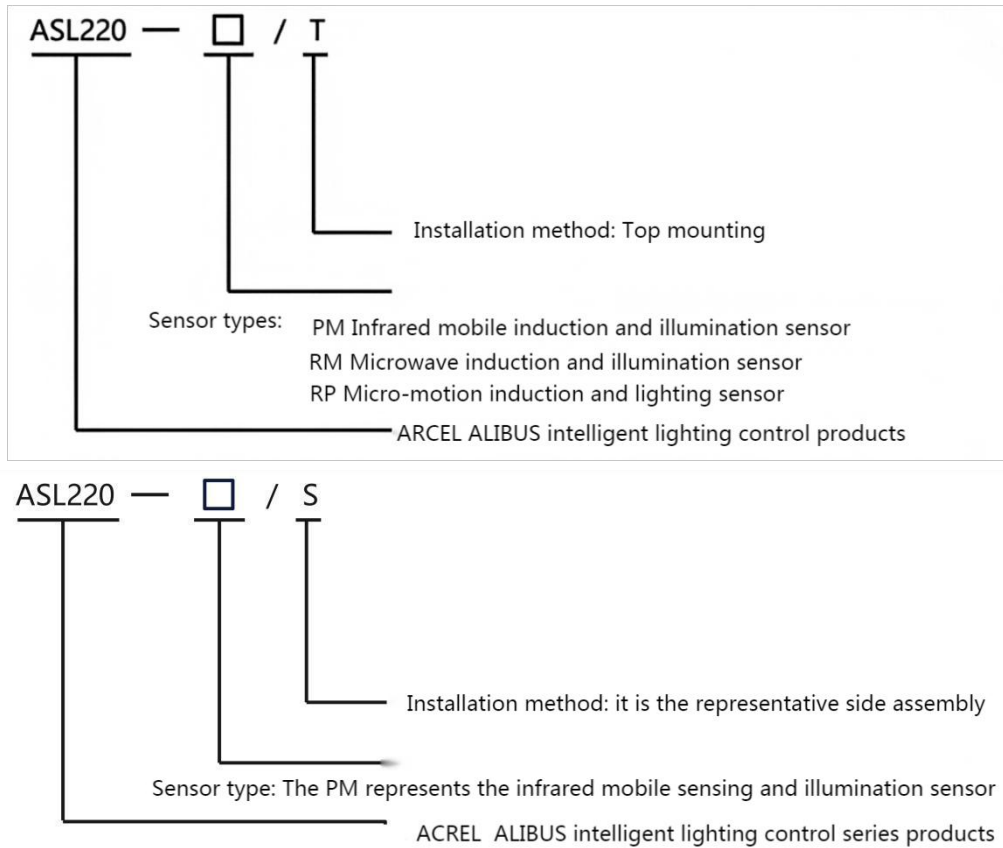
Contents

1. summary

ALIBUS Intelligent lighting sensor (hereinafter referred to as the sensor), is the input module of ACREL ALIBUS intelligent lighting control system. This module and other modules (such as intelligent panel, switch driver, etc.) are connected together to form a complete set of control system, to realize the intelligent control of large public construction and building lighting systems.

As an input module, the sensor can detect the movement of indoor people or objects and the current real-time illumination, and send a control command to the drive in the lighting distribution box (cabinet) to realize automatic control and adjustment of lighting.

2. product model

3. technical parameter

Table 1: Technical parameters table

technical parameter model		Infrared mobile sensing and illumination two-in-one sensor (side mount)	Infrared mobile sensing and illumination two-in-one sensor	Microwave induction and illumination two in one, sensor	Micromotion sensing and illumination two in one, sensor
		ASL220-PM/S	ASL220-PM/T	A SL220-RM /T	A SL220-RP /T
accessory power supply	rated voltage	ALIBUS Interface provides power supply to DC 24V			
The farthest induction range		3～8m	diameter 4m	diameter 4m	diameter 4m
		Light induction 0~65535lux			
Operation instructions		LED pilot lamp			

levels of protection	IP 20	
communication	ALIBUS Agreement	
way to install	Standard 86-box installation	Embedded mounting, open holes Φ 60mm
service environment	Operating temperature: -5℃ ~ + 45℃; Relative humidity: 95% uncovered	
External connection	Super six-class shielding network cable	
Maximum induction Angle	120°	
Storage temperature	-25℃～+55℃	
pigment	White (superficial)	

Difference

Infrared sensor: use P I R probe to detect the movement of mobile infrared heat source, suitable for installation in the ordinary walkway and stairwell and other positions, detect the personnel walking around, the installation height is 3~5m.
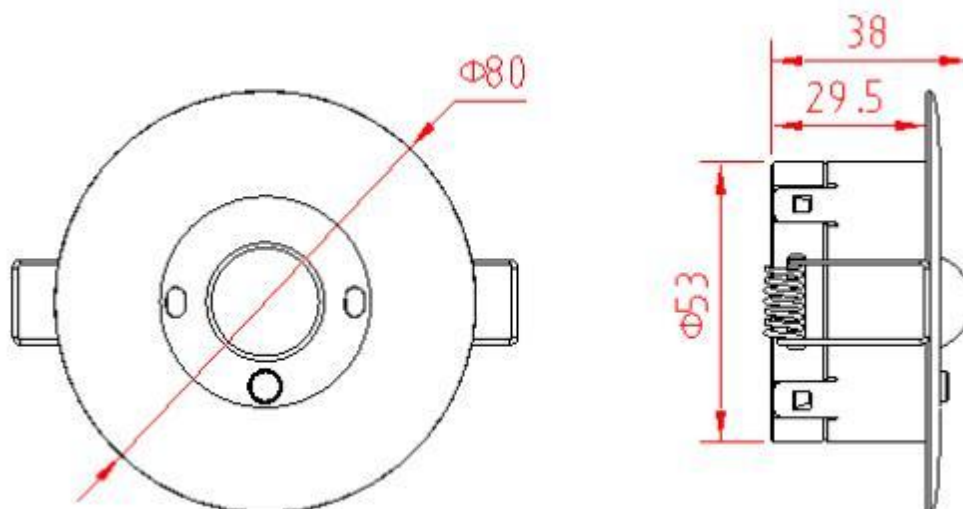
Infrared sensor (side installation): use the P I R probe to detect the movement of mobile infrared heat source, suitable for installation in the ordinary walkway and stairwell and other positions, detect the personnel walking, the installation height is about 1.3m from the ground.

Microwave sensor: using 10GH z microwave radar probe to detect the movement of objects, suitable for installation in underground parking lots and other Spaces, or need to detect the movement of unhot objects, the installation height is 3~5m.
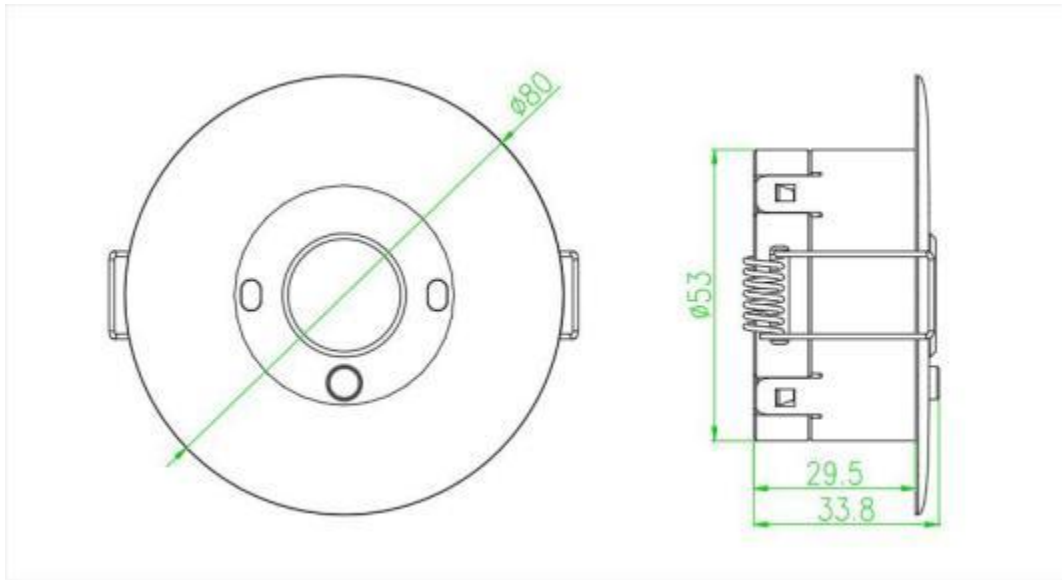
Micromotion sensor: use 24GH z high frequency microwave radar probe to detect the subtle movement of the object (the minimum detection movement is the human arm activity), which is suitable for installation in places, office, conference room and other occasions where the movement range is not large, the installation height is 3~5m.

4. Appearance structure

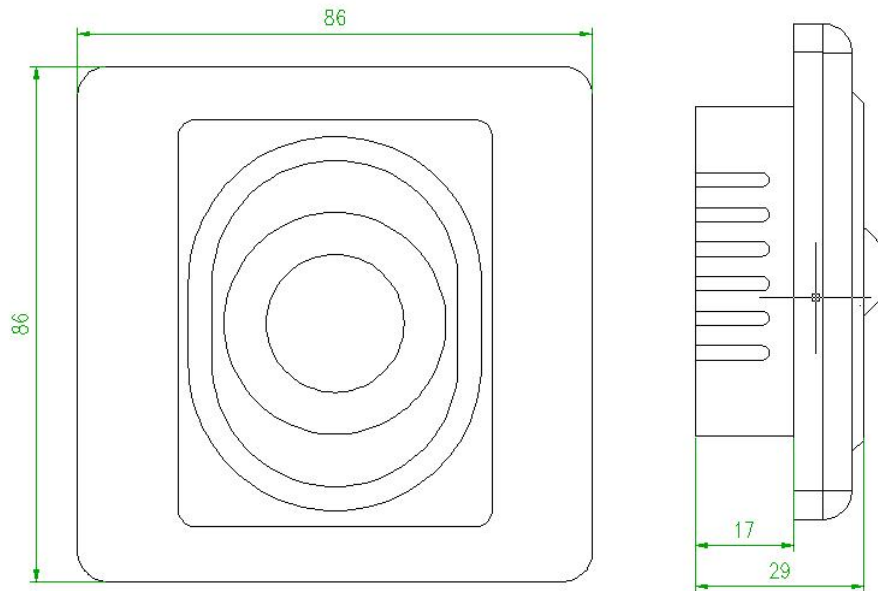Infrared mobile sensing and illuminance sensor:

Microwave / micromotion and illumination sensor:

Installation tip: This product is easy to install, using embedded installation method, fixed by using the left and right sides of the product. The sensor mounting hole is φ 60mm, and the operation, installation and testing of the product must be ensured during installation.
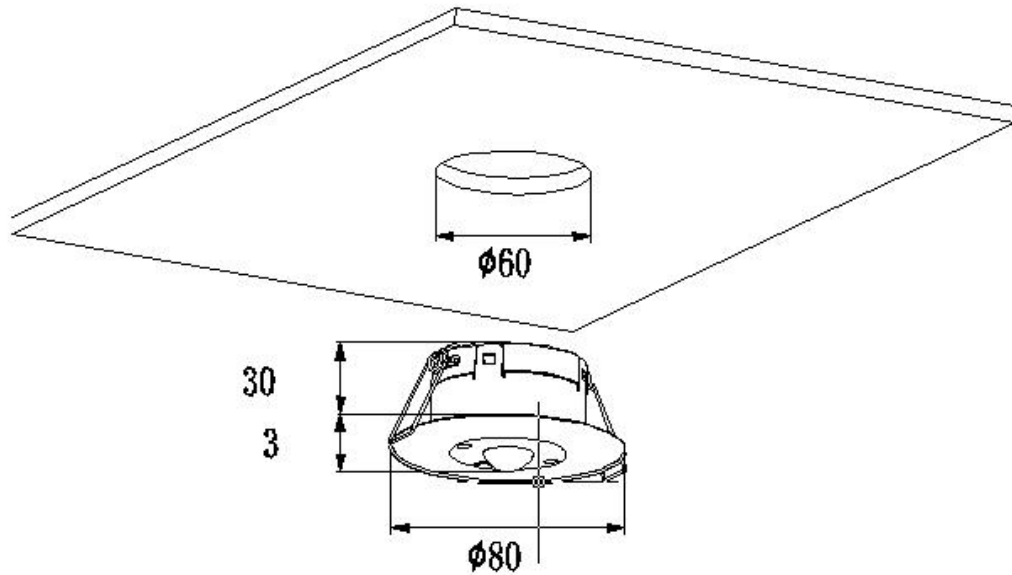
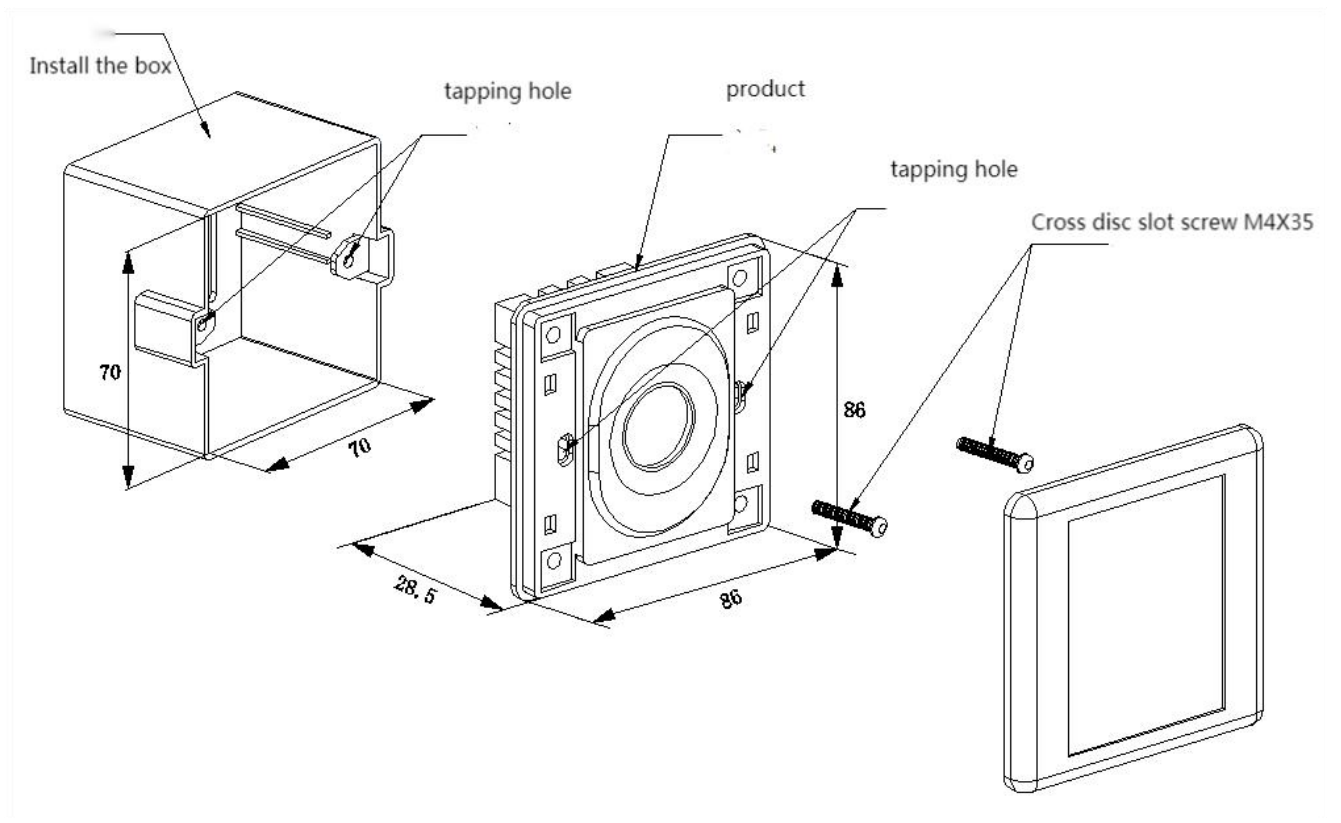Infrared mobile sensing and illumination sensor (side-mounted):

Installation tips: this product adopts standard 86 boxes for installation, and the construction is simple. Correct operation, installation, and testing of the product must be ensured during installation.

5. Install the structure

Infrared mobile sensing and illumination sensor,Microwave / micromotion and illumination sensor:
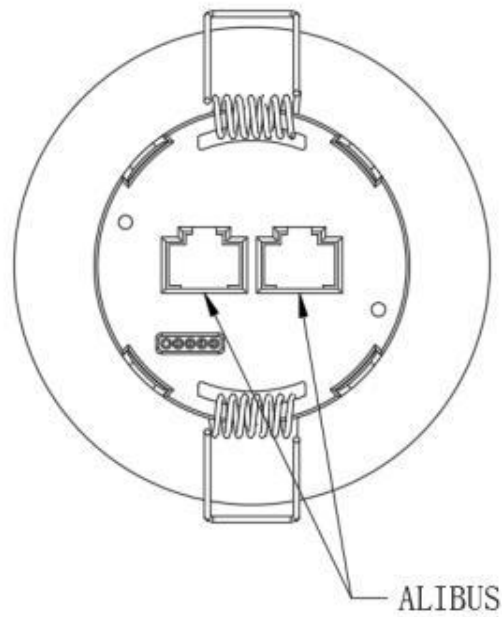
- Overall product size: φ 80 * 33mm
- Product exposed size: φ80*2.5mm
- Product mounting hole size: φ 60mm
- Product installation method: top mounting (embedded installation)
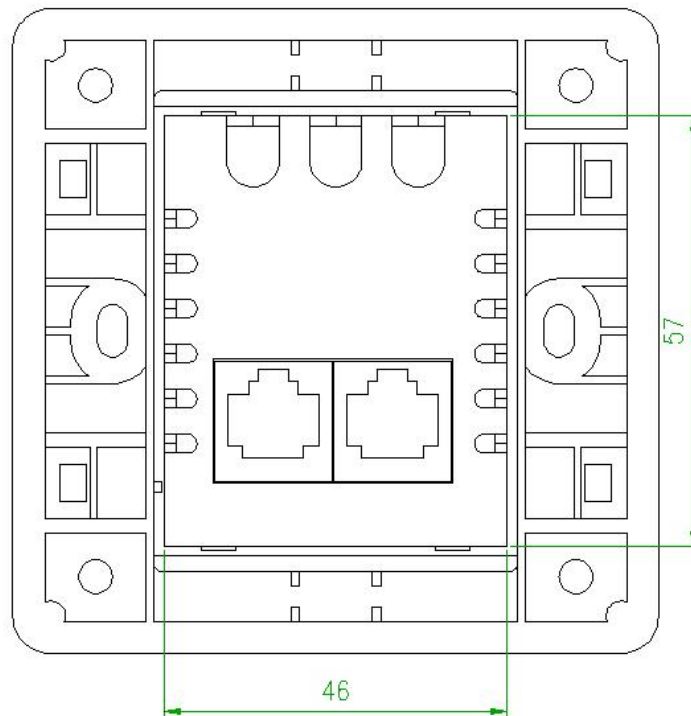 Infrared moving sensing and illumination, sensor (side-mounted):

- Standard 86-box installation

6. Electrical wiring diagram

Infrared mobile sensing and illumination sensor, Microwave / micromotion and illumination sensor:
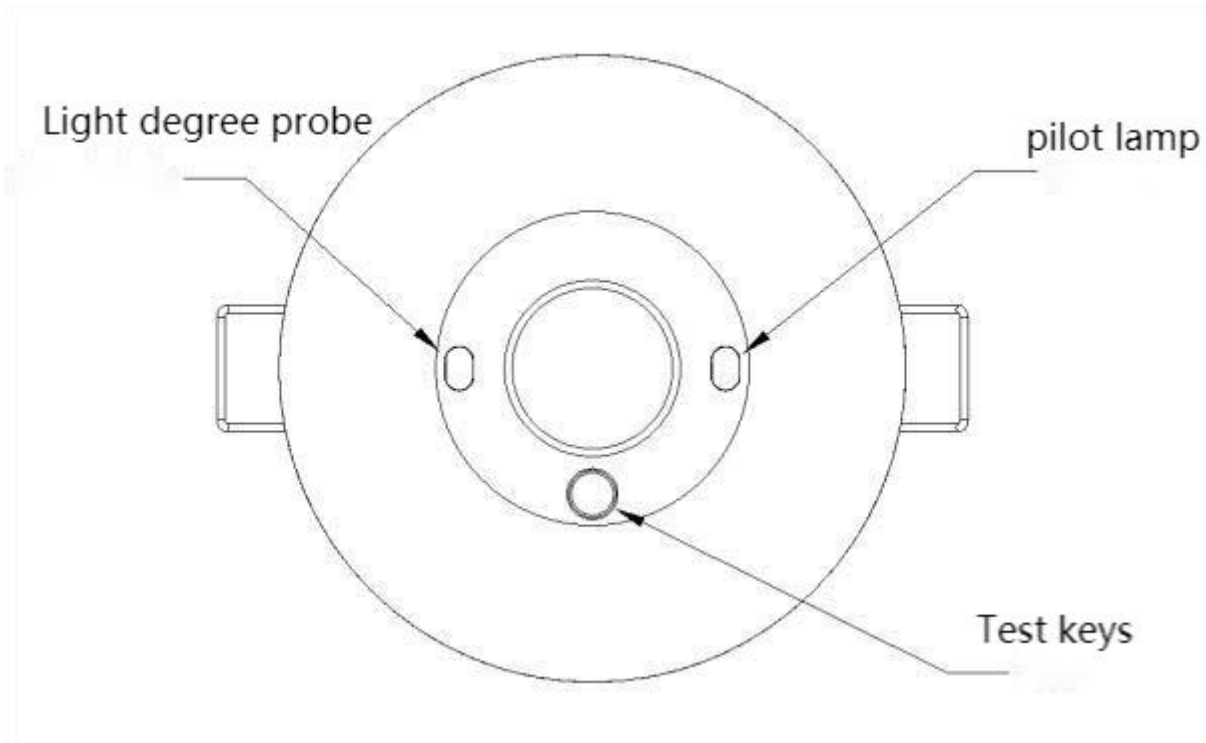
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Infrared moving sensing and illumination, sensor (side-mounted):

The connection between the equipment in the system adopts the standard super six shielding network cable connection, without additional working power supply.

7. Application guide

Note: Infrared sensor (side-mounted) without keys

Light degree probe · pilot lamp · Test keys

- Sensor indicator light

The sensor indicator is green / red, see the table below:

Self-inspection mode	When just on the power on, green light 1S, red light 1S
normal mode	The start of the message green light, the end out, detected human red light flashing
test pattern	Red light flash
Exception mode	The green light flash

- Key instructions

There is a test button on the sensor, and click it to send a control message once.

8. matters need attention

- Before using the product, please check whether the appearance is in good condition, and find the seller in time if it is damaged.
- Connect the wiring correctly according to the instruction manual. Check the wiring carefully to ensure that the wiring is correct.
- After connecting the product to the bus, make sure the operating indicator is normal. Operation the programming key to ensure that the key is stuck and the programming light is normal.
- Product installation and replacement to ensure that it is operated under power failure.

Change the record

Revised edition	Revision time	Revised terms
V1.1	2023.1.3	1、New infrared sensor (side-mounted)
		2、The sensor induction range is changed to the maximum induction distance
		3、 Product parameters remove transport temperature
		4、 The detection range of the embedded mounted sensor is changed to a maximum diameter of 4m.
		5、The new minimum detection action of the micro-motion sensor is the arm swing.
		6、The mounting size of the embedded mounting sensor changes from φ 55mm to φ 60mm
		7、New red outer-mounted sensor difference difference, shape structure, installation method, electrical wiring diagram
		8、Note Delete "the product can not directly replace the micro circuit breakers and other protection components"

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