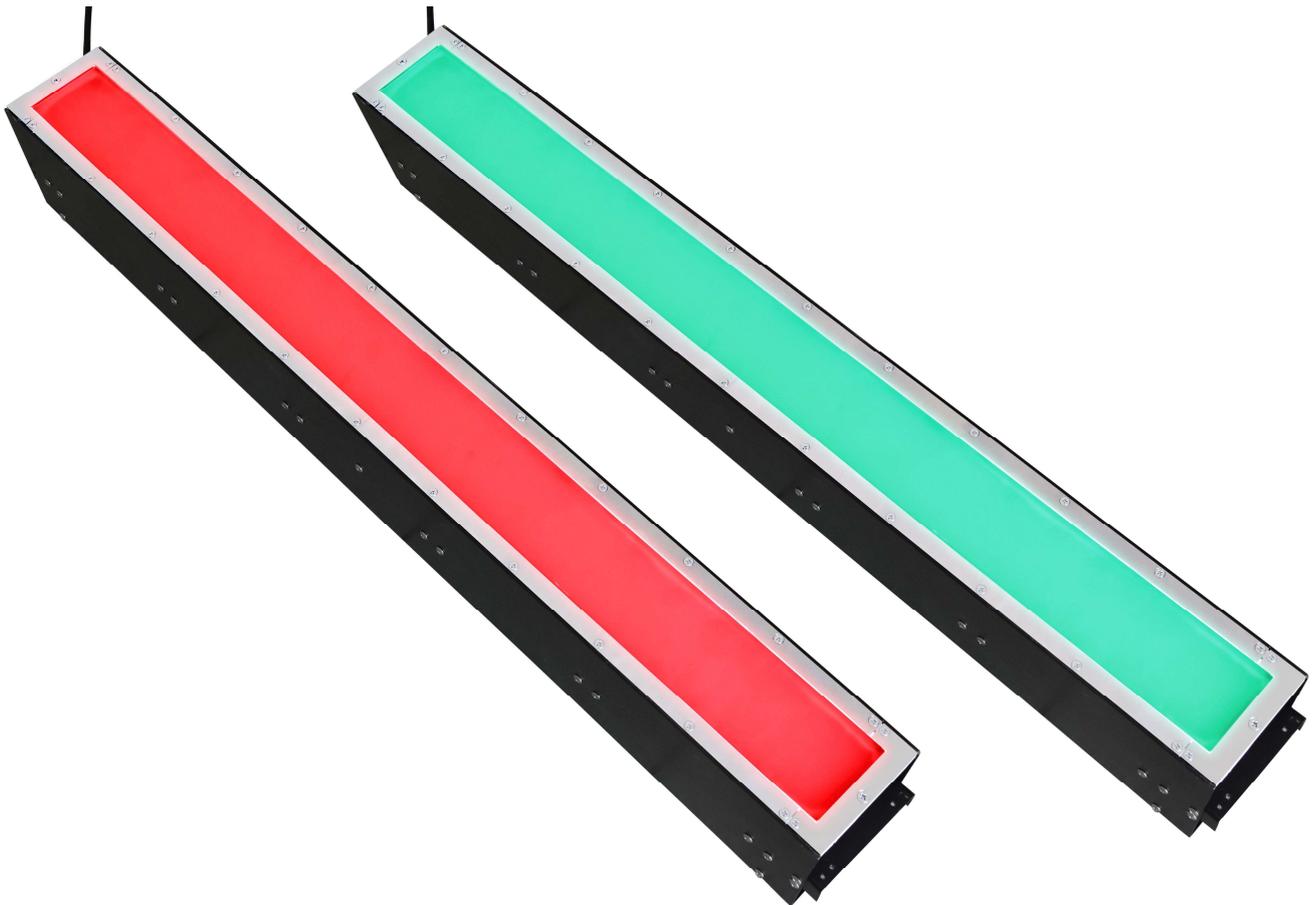


LED PAVEMENT WARNING LIGHT

For the prevention of road accidents to pedestrians

Product Introduction

Tri-waterproof-IP 67, Anti high Strength Compression and Vibration

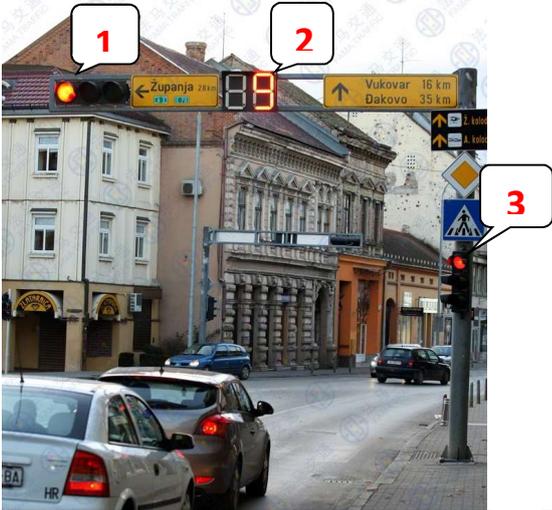


LED Safety Pavement Light Overview:

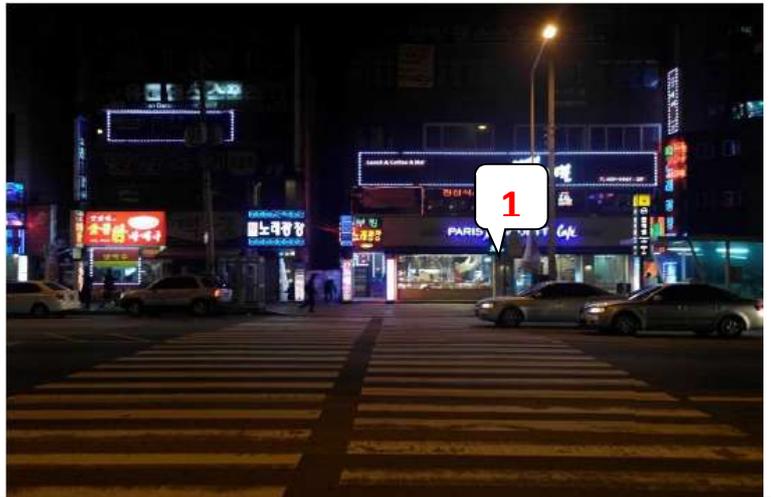
Status of Pedestrian Safety Facility

Traffic accident prevention facility is needed urgently for pedestrians and the vulnerable.

- ① Need to improve the visibility and discernment of pedestrians signal at night;
- ② Need to have the secondary information provider that lets the pedestrians on crossing know the current status of pedestrian signal;
- ③ Need to have pedestrian safety facility that clearly shows the boundary line between the road & the sidewalk, which pedestrians comply to the signal better for safety reinforcement.



Various facilities for vehicles



Facility for pedestrians: Only one place=> Truly lacking in Visibility

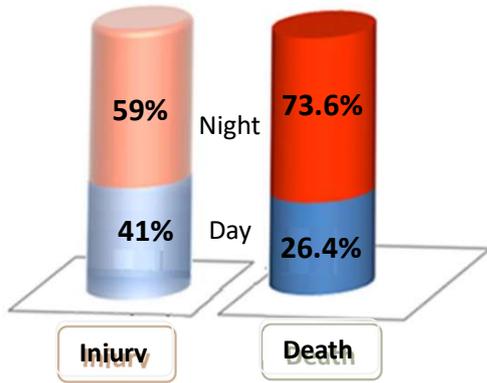


Phubber Increasing

Status of Traffic Accident on Crosswalk



Day & night casualties comparison of pedestrian while crossing



Source: Road Traffic Authority (Korea Data 2015.8)

1

Pedestrian Jaywalking Accident(59.4%)

2

Night time accident rate (73.6%) is higher than daytime

3

The boundary line between the road & the sidewalk, lack of crosswalk facility, etc. Road traffic environment consideration for pedestrian

4

The Elderly, children, disabled, etc. Lacking consideration for the vulnerable.

Expected Effect – Comparing Before or After

Increasing 35% of visible range at night. Taking a role of psychological line that will not let people step on the LED Pavement Light.

Before

Disorderly wait in Line before crosswalk (Unsafe crossing)



After

Orderly wait in Line before crosswalk (Safe crossing)



Expected Effects

- ① Control jaywalking due to the role of the psychological line Secure visibility in case of night time or bad weather – minimize crosswalk accidents at night;
- ② Traffic accident prevention: school zone, senior zone, children zone, Advanced prevention: the elderly in the aging society, children, the vulnerable;
- ③ Secure safe crossing due to having secondary device of pedestrian signal;
- ④ Prevent accidents involved with the increased usage of smart phone, (92.7% rate of smart phone possession on the end of 2016)
- ⑤ Contribute to decreasing socio-economic losses from traffic accidents; Annual socio-economic losses: approximately US\$ 2.1 billion;
- ⑥ Advanced prevention due to securing visible crosswalk for drivers;
- ⑦ As secondary safety facility that controls jaywalking and secures visibility for the vulnerable (people with amblyopia or low vision) and pedestrians.

Operating pattern interconnected with pedestrian signal – Using ‘RED’ or ‘Green’ light

Stop Signal Red On



Corresponding with stop signal of existing signal system, switching on the red light means attention.

Go Signal Green On



Corresponding with go signal of existing signal system, switching on the green light means enable to cross safety.

Product Summary

- ① Special Design for Zebra Crossing Pedestrian, with 510nm Green and 625nm Red light, good color uniformity, soft, not dazzling . When the sun is strong, The Light with the maximum brightness. At night the brightness automatically dimming to 30% by light sensor.
- ② Unique circuit design, when One LED chip is damaged, it affects only one single LED, and will not cause dark area .
- ③ Anti high strength compression and vibration: use 10mm frosted tempered glass, the surface is designed to prevent slippery; Own design of rubber spring for buffer the pressure when car running over the Product.
- ④ The embedded parts easy for maintenance , designed by self locking. When the product is replaced for repaired, Just slide the lamp bar and remove it
- ⑤ IP67 waterproof Constant Current Power Supply, response time<100ms, without delay, synchronized with pedestrian traffic lights;
- ⑥ Best heat sink with unique buried ventilation holes;
- ⑦ Novelty design with beautiful appearance, covered by 304 stainless steel surface.
- ⑧ The Strip Light Waterproof IP Grade: IP67. Tri-Waterproof treatment. Length :1 Meter/pcs, also can be customized,
- ⑨ Working Voltage:DC36V, Power:12W~40W, Red: 40W, Luminous Flux>960lm, Green: 40W, Luminous Flux>1040lm.
- ⑩ Warranty> 2 years.

Packing Info.:

Net Weight: Strip Light:8 kg Embedded Frame:8 kg
 Packing G.W.: 16.8kg Packing Size: L 1050*W 130*D 180mm
 Power Supply N.W.: 2.6kg Power Supply Size: 260*120*55mm



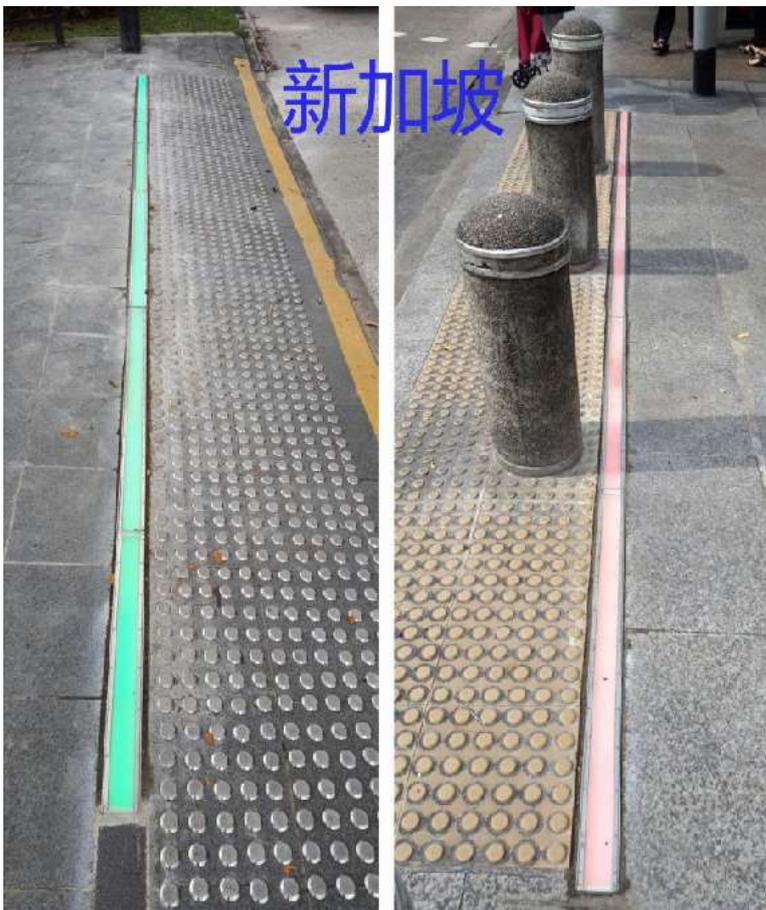
Project Reference:



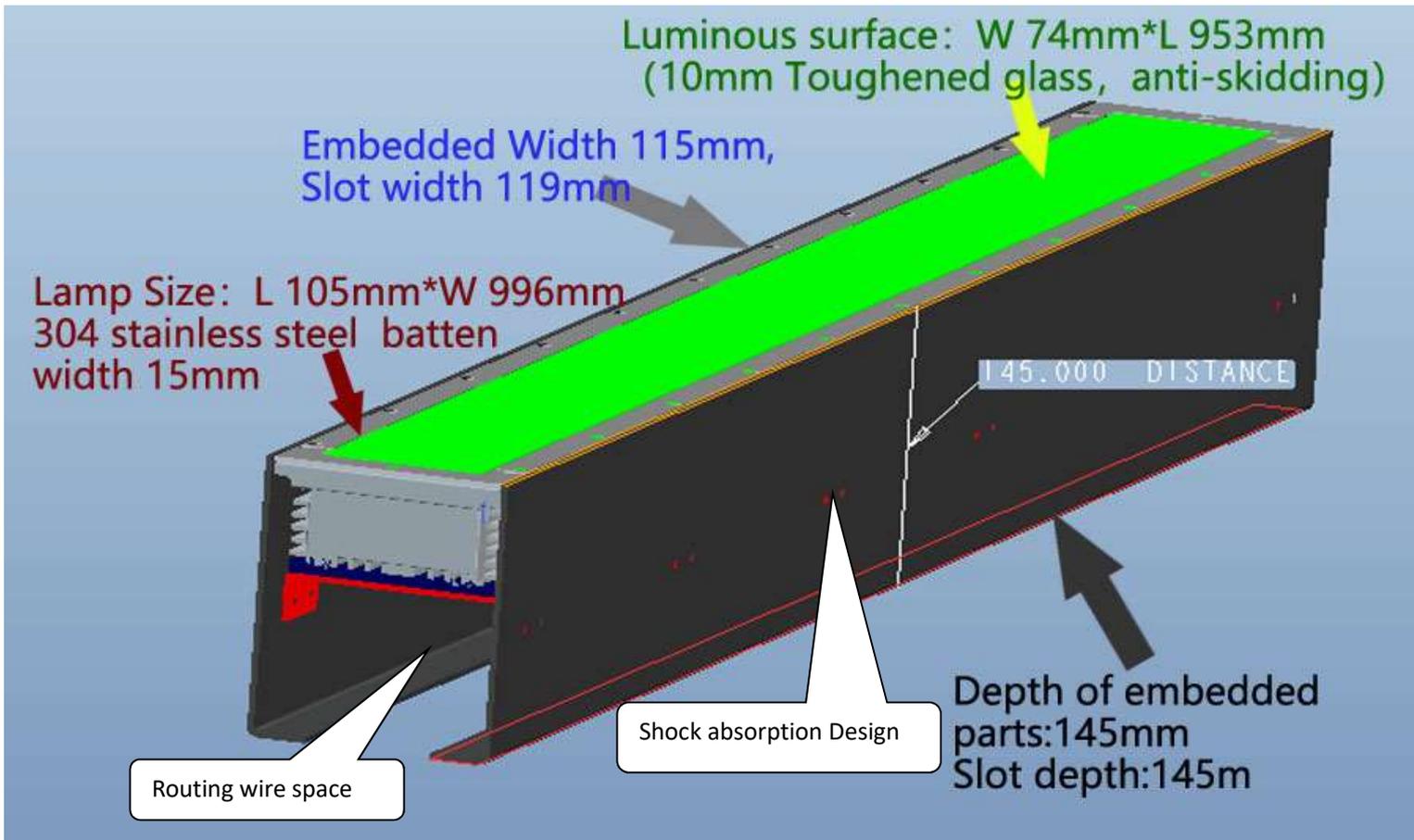
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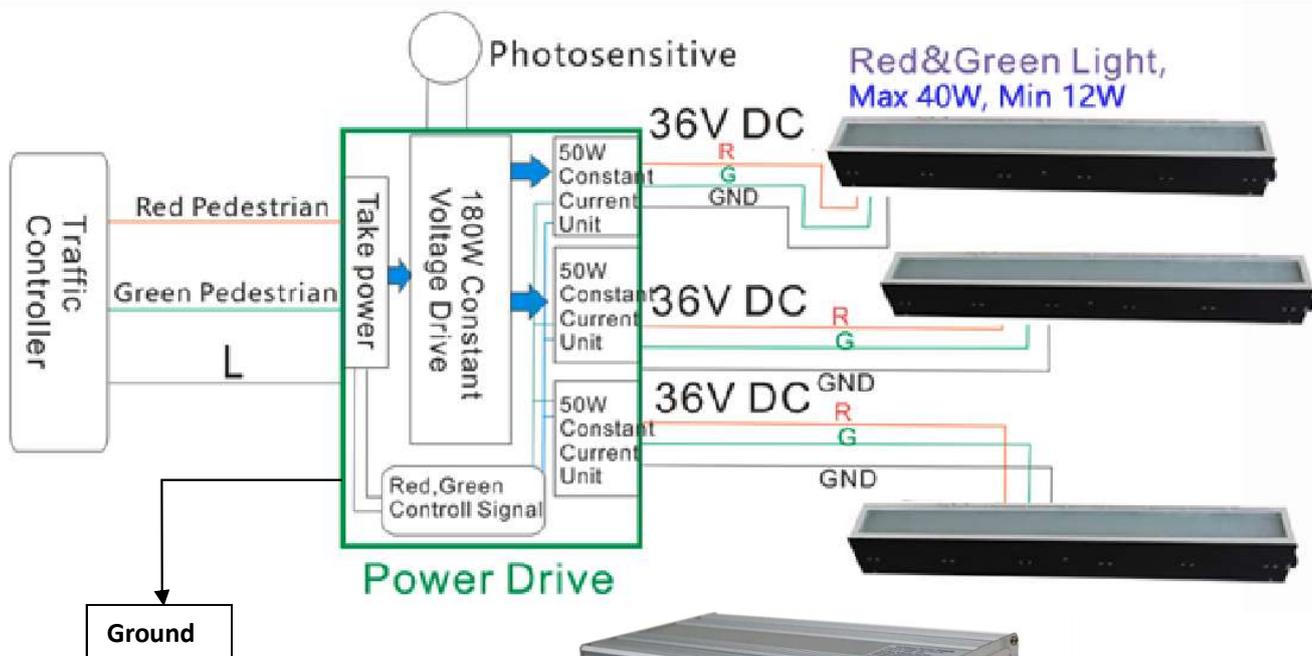


Structure & Size:



How to connect power supply and Strip light:

Each power supply can connect 3 light, take electricity direct from pedestrian light, power supply waterproof >IP67. Photosensitive are inside the power supply, The Light are dimming simultaneously. Day time brightness 100%, at night dimming to 30%.



One Power Supply Can Drive Three Strip Light



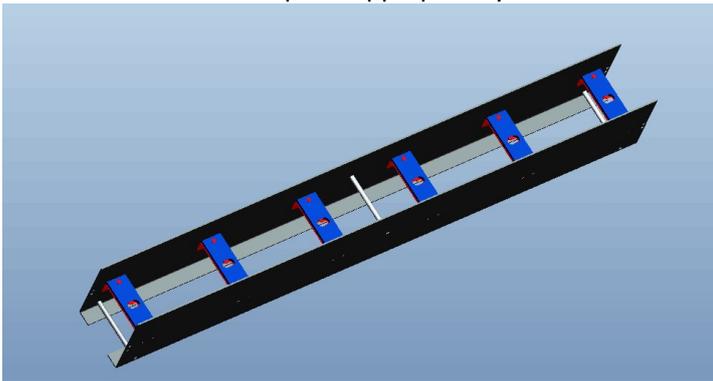
Installation Guide

The project is divided into the following stages: hardware equipment in place, Broken Road cutting slot, put embedded parts installation, debugging, acceptance and other works. The total duration is 1-3 working days.

① The slot size of zebra crossing is 1 m, 2 m, 3 m 4 m and other length, 119 mm in width and 145 mm in depth. As illustrated. The location of slotting is usually for pedestrians waiting or the first zebra crossing.

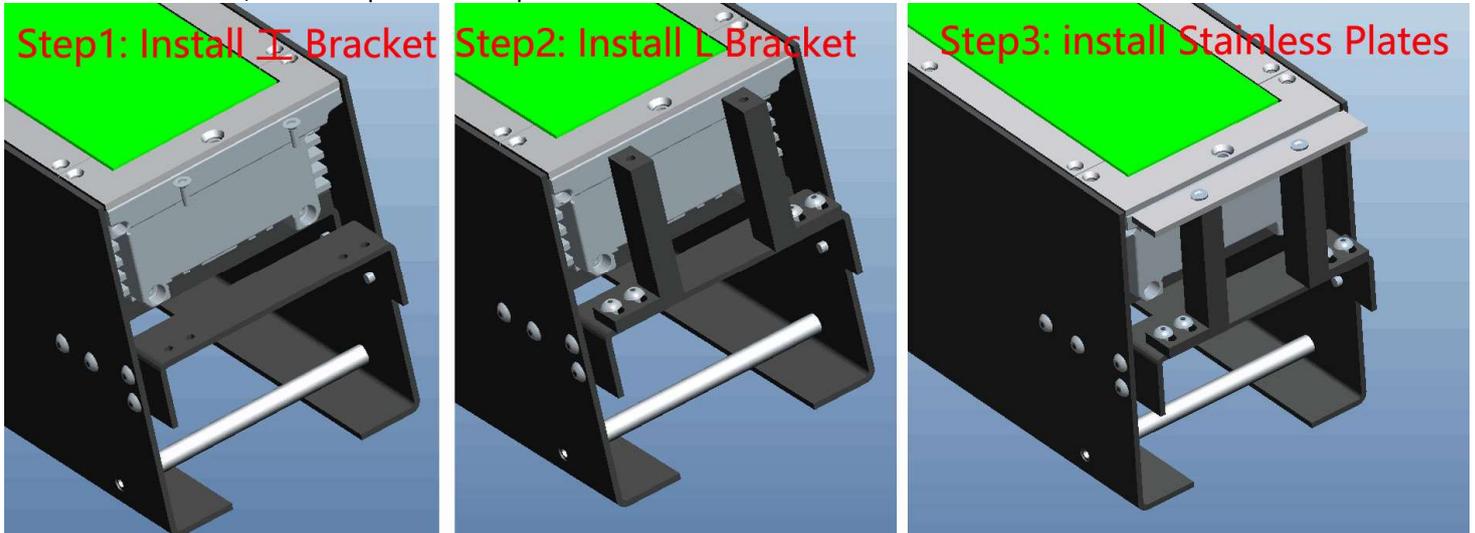


② The embedded parts are put into the cement groove. If the slot space is too large, the two sides of the embedded parts are smoothed with cement paste appropriately.



③ Put the Strip Light into the embedded part, the Wire can go from the bottom of the embedded part, push the Strip Light, let the screw under the Strip Light lock with the embedded part.

At the end of each row, there will be a maintenance bracket, as shown in the following figure: when repairing, just remove the maintenance bracket, and then push the lamp to remove it.



④ Power supply Install: The size of power supply is 23 cm length, 12 cm width and 6 cm height. The power supply is encapsulated with full-filling silica gel. waterproof grade IP67 is not suitable for long-term immersion in water. It can be buried under the pedestrian lamp pole with a plastic sealed box (heat dissipation need not be worried) and covered with floor tiles.

- ⑤ One power supply can drive three-meter Strip light, each strip light corresponds to a three-core wire connected to the Power supply output, parallel connection, the wire color Corresponding.
- ⑥ Attention: Please consult our technicians about the number of light bars connected to each zebra crossing. Since the maximum power of each light is 40W, if the power is over 2000W, the load of traffic signal controller should be taken into account, especially when the sun shines directly during the day.

The wiring must be pressed inside the connector.

