

## Brief introduction of waterproof box series products

Waterproof box series products are fire alarm equipment used in outdoors, tunnels and pipe racks. They can match with fire detector, manual alarm button, fire cock button, sound-light alarm to achieve fire detection and linkage control. Our products are dust-proof and waterproof, which can be applied in dusty and humid environment, and are certified by national testing organization.

## List of waterproof box series products



TX3961  
Waterproof box for detector



TX3962  
Waterproof box for sound-light alarm



TX3963  
Waterproof box for fire button

No.	Model	Name	Applicable products
1	TX3961	Waterproof box for detector	Applicable to all detectors
2	TX3962	Waterproof box for sound-light alarm	Applicable to sound-light alarms
3	TX3963	Waterproof box for fire button	Applicable to manual alarm, fire alarm, start/stop and single module

### I. TX3961 detector waterproof box

#### 1. Appearance and dimension

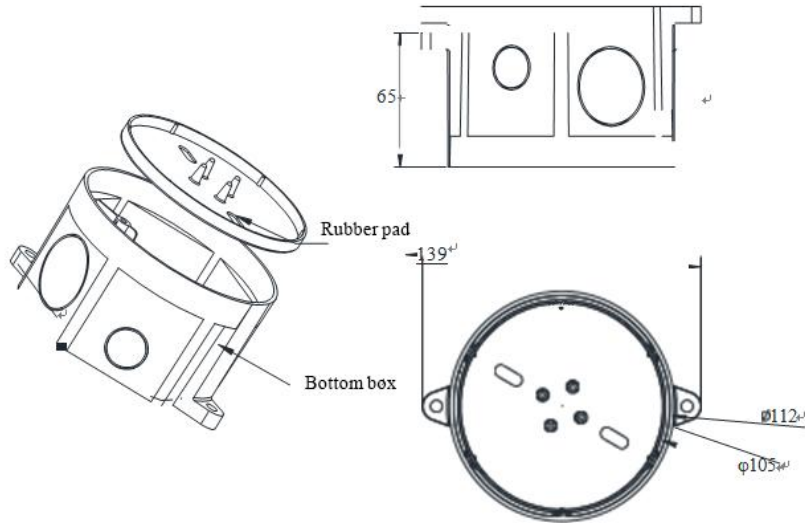


Fig. 1 Appearance and dimension

## 2. Technical parameters

Outline dimension: 139×112×65mm

Protection class: IP33

Material: bottom box ABS+ waterproof rubber pad

Color: white

Weight: 112g

Operating temperature: -40°C~70°C

Matched products: TX3100C, TX3100D, TX3110B detectors, (at present, the diameter of our smoke, heat detectors is 100mm)

## 3. Installation

### (1) Usage and installation for TX3961 detector waterproof box

Product base shall be provided with rubber pad. The cable goes through protruding position of rubber pad inside waterproof box and then connects with base terminal. It is recommended that product base and waterproof box are fastened by self-tapping screw ST4.2\*12mm, as shown in Fig. 2-1.

Product installation hole spacing inside waterproof box is 60mm. Fixed hole spacing of waterproof box is 125mm, and M5 expansion screw is used for fastening, as shown in Fig. 2-2.

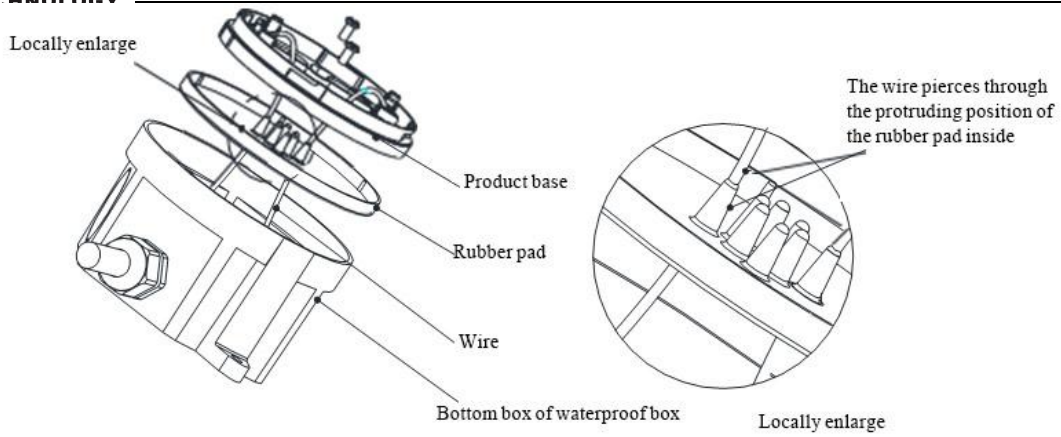


Fig. 2-1 rubber pad usage mode

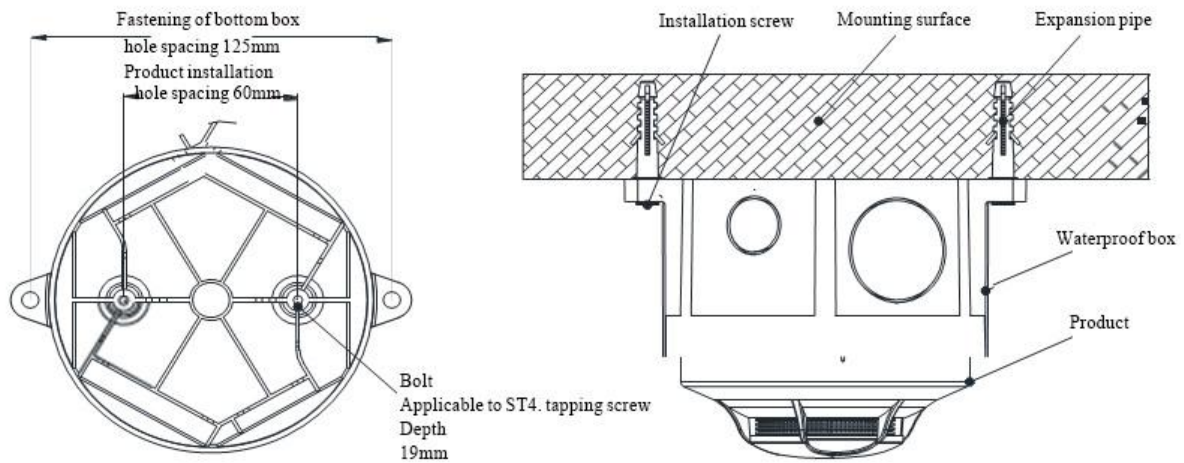


Fig. 2-2 product installation diagram

## (2) Incoming line type for TX3961 detector waterproof box

Because of different construction types at site, waterproof box can meet the requirements of M20 and M36 waterproof joints. Details as follows:

M36 waterproof joint is standard part, which is applicable to OD 18-25mm cable or conduit. It is recommended that M36×1.5 waterproof joint thread length is 10mm.

M20 waterproof joint is standard part, which is applicable to OD 6-12mm cable or conduit. It is recommended that M20×1.5 waterproof joint thread length is 10mm.

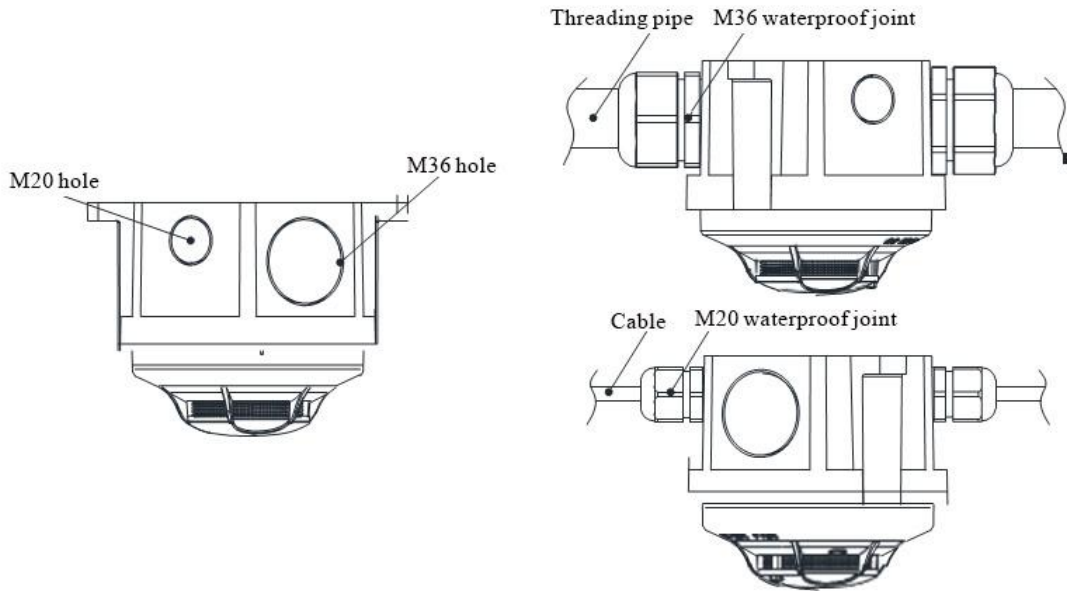


Fig. 3 Incoming line type

## II. Waterproof box for TX3962 sound-light alarm

### 1. Appearance and dimension

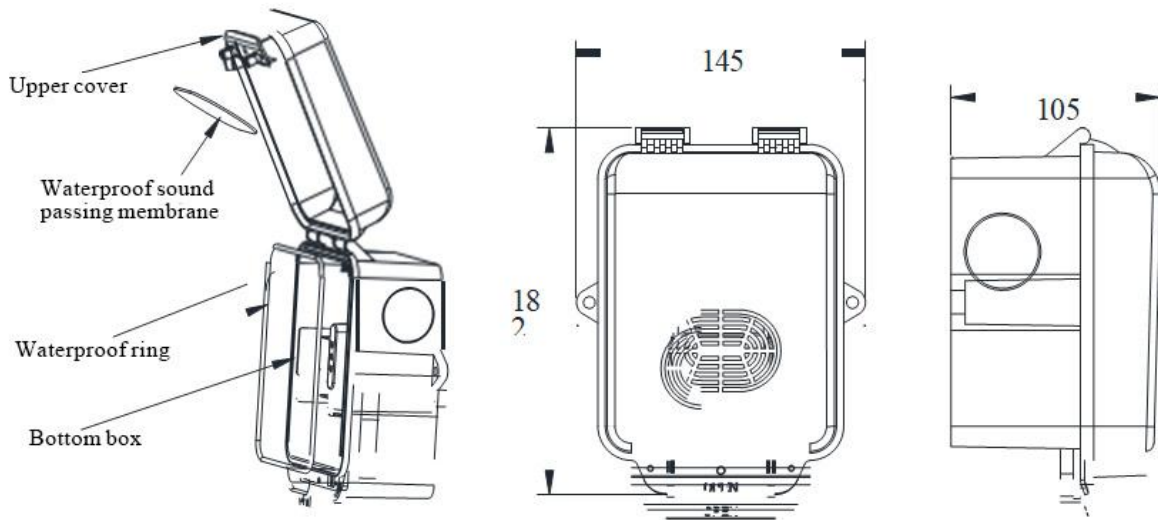


Fig. 4 Appearance and dimension

### 2. Technical parameters

Outline dimension: 182×145×105mm

Protection class: IP66

Material: transparent PC bottom box ABS for upper cover

Color: bottom case is red and upper cover is transparent with white waterproof sound passing membrane

Weight: 240g

Operating temperature: -40℃~70℃

### 3. Installation

#### (1) Installation and fastening for TX3962 sound-light alarm waterproof box

The space is 140×105×46mm inside waterproof box; the produce less than this dimension and with sound prompt requirement can match with this kind of waterproof box;

Installation hole spacing is 60mm inside waterproof box. It is recommended that ST4.2\*12mm self-tapping screw is used for fastening. Fastening hole spacing of waterproof box is 132mm. M5 expansion screw is recommended for fastening, as shown in Fig. 5.

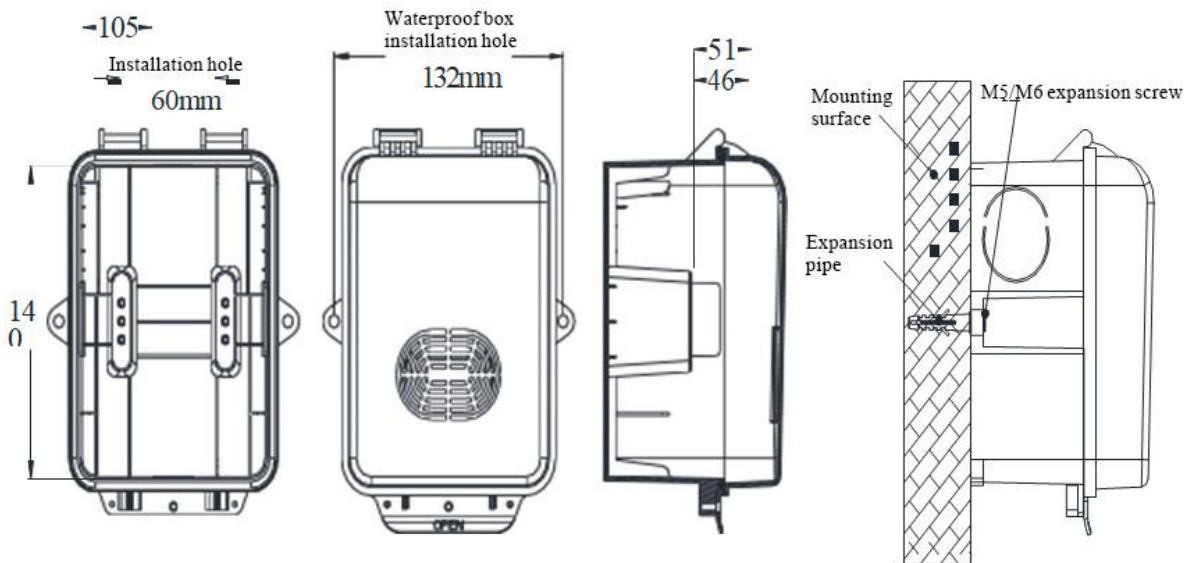


Fig. 5 inner dimension and installation diagram

#### (2) Incoming line type for TX3962 sound-light alarm

Because of different construction types at site, waterproof box can meet the requirements of M20 and M36 waterproof joints. Details as follows:

M36 waterproof joint is standard part, which is applicable to OD 18-25mm cable or conduit. It is recommended that M36×1.5 waterproof joint thread length is 10mm.

M20 waterproof joint is standard part, which is applicable to OD 6-12mm cable or conduit. It is recommended that M36×1.5 waterproof joint thread length is 10mm.

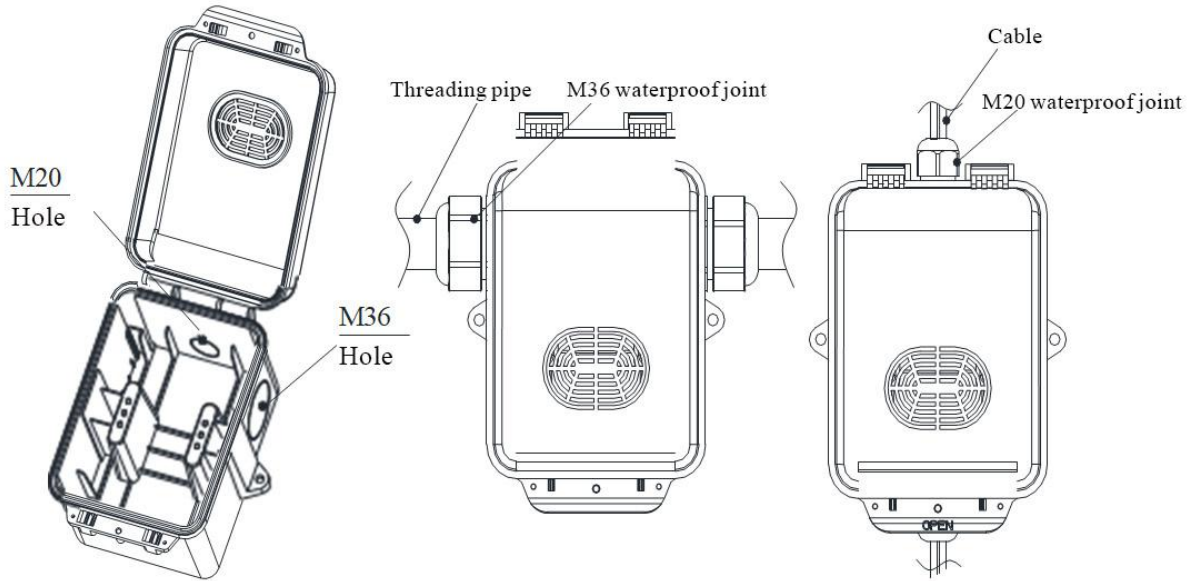


Fig. 6 Incoming line type

(3) Optional installation principle for fastening screws

Upper cover and bottom case can be structurally clamped. During the course of using, ST2.9\*8mm self-tapping screw can be used to lock the bottom in order to avoid unnecessary starting or human-induced protection failure due to upper and lower covers not tightly fastened, as shown in Fig. 7.

If the product inside is installed at site, fastening screw on the bottom shall not be installed.

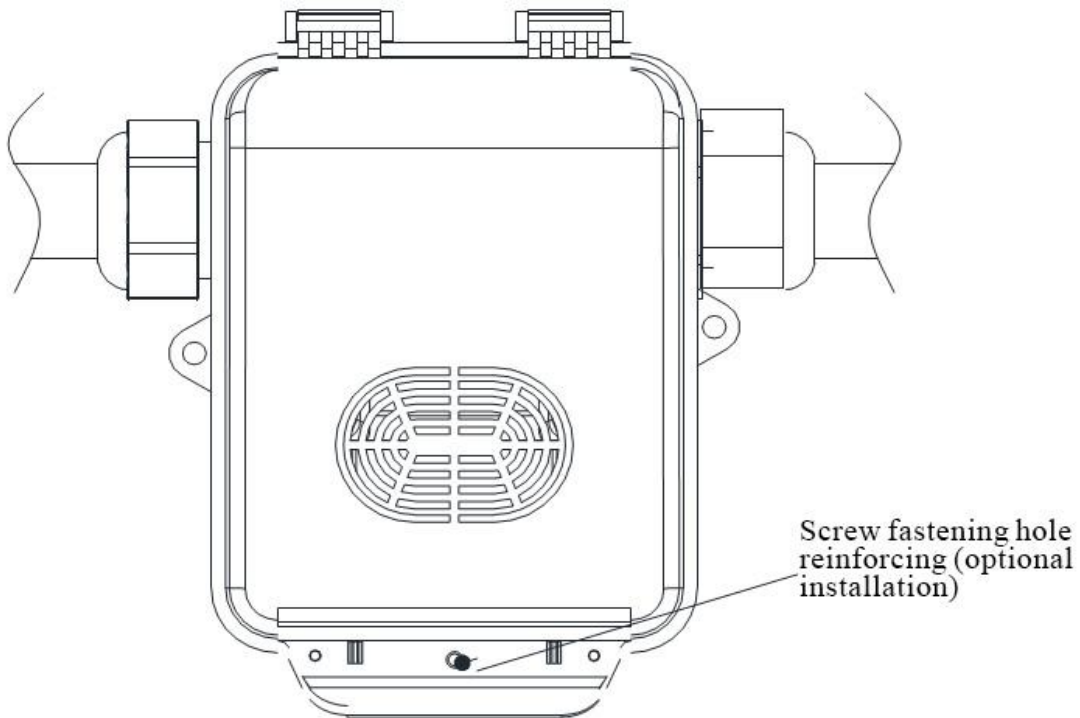


Fig. 7 Fastening screw installation position

### III. TX3963 fire button waterproof box

#### 1. Appearance and dimension

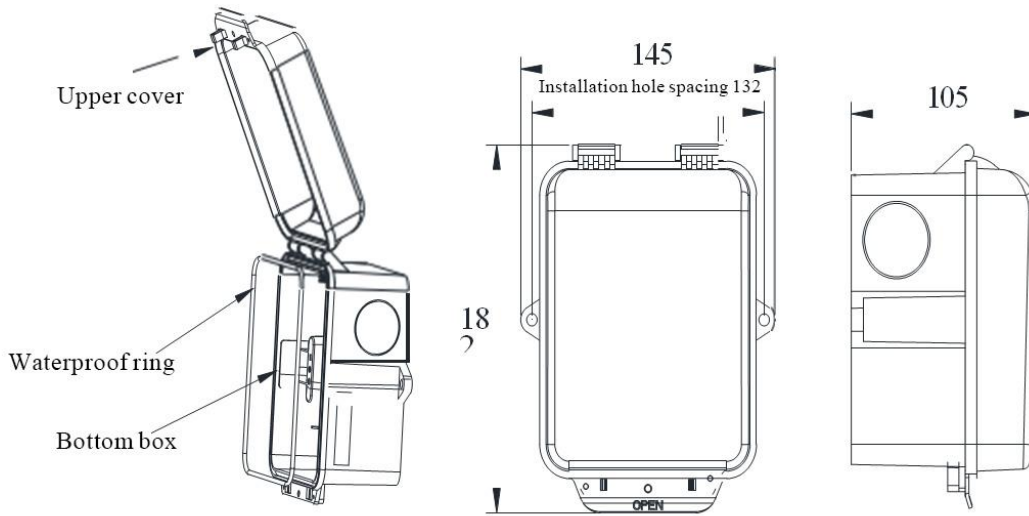


Fig. 8 appearance and dimension

#### 2. Technical parameters

Outline dimension: 182×145×105mm

Protection class: IP66

Material: upper cover is transparentPC and bottom box ABS

Color: bottom case is red and upper cover is transparent

Weight: 240g

Operating temperature: -40°C~70°C

Matched products: TX3201, TX3211, TX3214C, TX3222 modules; TX3142, TX3153 manual alarm and fire alarm etc.; TX3157A E-stop button is mainly applicable to the product without sound requirement.

#### 3. Installation

##### (1) Installation and fastening for TX3963 fire button waterproof box

The space is 140×105×46mm inside waterproof box; the product less than this dimension can match with this kind of waterproof box;

Installation hole spacing is 60mm inside waterproof box. It is recommended that ST4.2\*12mm self-tapping screw is used for fastening. Fastening hole spacing of waterproof box is 132mm. M5 expansion screw is recommended for fastening, as shown in Fig. 9.

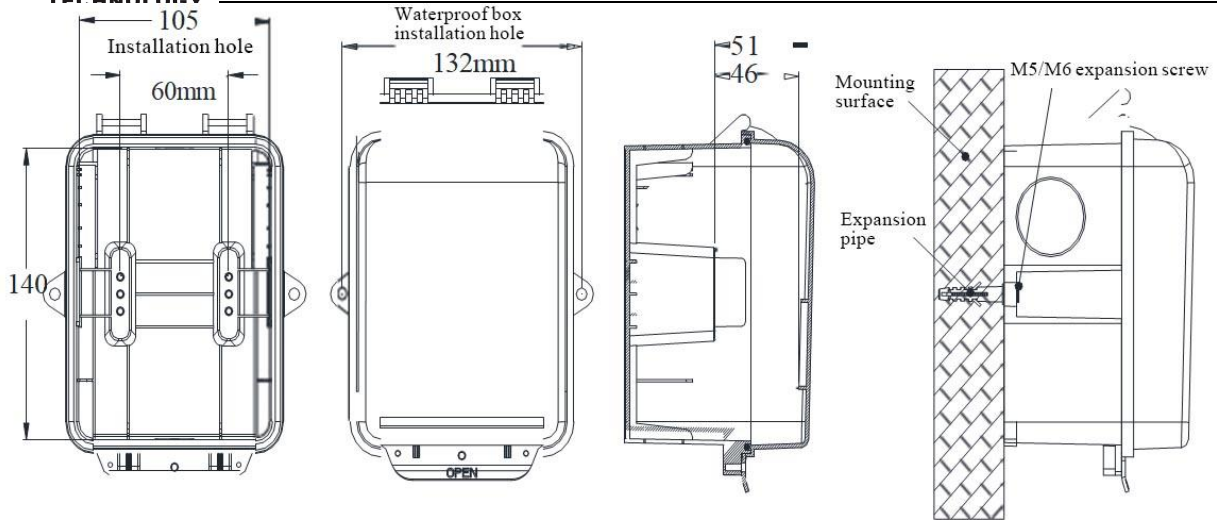


Fig. 9 installation diagram

(2) Incoming line type for TX3963 fire button waterproof box

Because of different construction types at site, waterproof box can meet the requirements of M20 and M36 waterproof joints. Details as follows:

M36 waterproof joint is standard part, which is applicable to OD 18-25mm cable or conduit. It is recommended that M36×1.5 waterproof joint thread length is 10mm.

M20 waterproof joint is standard part, which is applicable to OD 6-12mm cable or conduit. It is recommended that M36×1.5 waterproof joint thread length is 10mm.

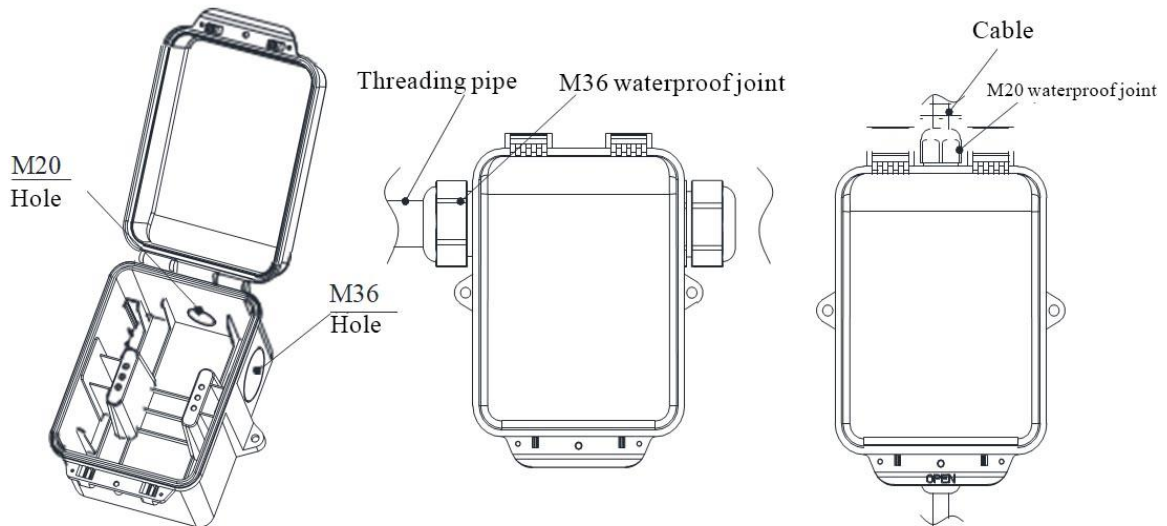


Fig. 10 Incoming line type

(3) Optional installation principle for fastening screws

Upper cover and bottom case can be structurally clamped. During the course of using, ST2.9\*8mm self-tapping screw can be used to lock the bottom in order to avoid unnecessary starting or human-induced protection failure due to upper and lower covers not tightly fastened, as shown in Fig. 11.

If the product inside is installed at site such as manual alarm, fire alarm, emergency stop button, etc, fastening screw on the bottom shall not be installed.

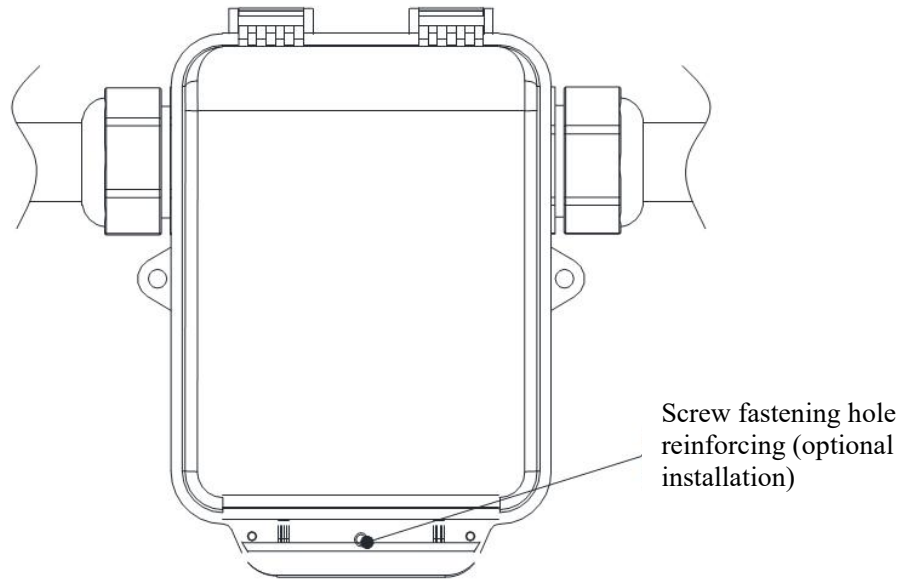


Fig. 11 Fastening screw installation position