

dimax

SENSOR DE HAZ IR,
3 HACES 250M

A313

dimax

**FOTOCÉLULA IR
DE TRIPLE HAZ**

MODELO: A313

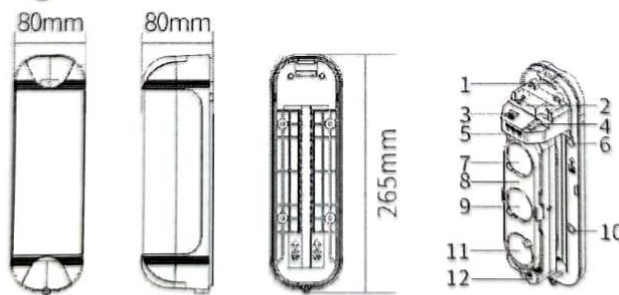
1). Features

- Interruption time adjustable
- Digital filtering, high environment adaptability to eliminate false alarms
- CPU control transmitter and receiver to eliminate false alarms
- Wide voltage design of DC9~30V/AC9~20V
- NO/NC relay outputs
- Tamper alarm function(NC, alarm when cover was removed)

2). Specifications

- Detection distance: 0~250m selectable
- Power and voltage: DC9~30V/AC9~20V
- Current consumption: $\leq 70\text{mA}$ max
- Detection method: interruption of all beams
- Interruption time: 50ms/100ms/300ms/700ms (adjustable)
- Alarm cycle: $\geq 1.5\text{s}$
- Alarm output: NO\NC selectable
- Tamper output: NC
- IP rating: IP65
- Operating temperature: $-30^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- Humidity: $\leq 95\%\text{RH}$
- Correction angle: Horizontal $180^{\circ}(\pm 90^{\circ})$, Vertical $20^{\circ}(\pm 10^{\circ})$
- Install location: Indoor\Outdoor, Wall\Pole
- Dimension: $265 \times 80 \times 80\text{mm}$
- Attachment:
 - U bracket: 4pcs black ABS, $65 \times 30 \times 33.5\text{mm}$
 - Pole mounting screw: 8pcs, $\text{PM4} \times 30\text{mm}$
 - foam: $68 \times 33 \times 6\text{mm}$ black, 38 degree EVA cotton

3). Product diagram

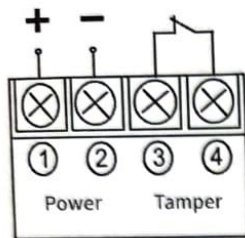


- 1: Wire hole
2: Terminal
3: DIP switch(Only for receiver)
4: Tamper switch
5: Indicator

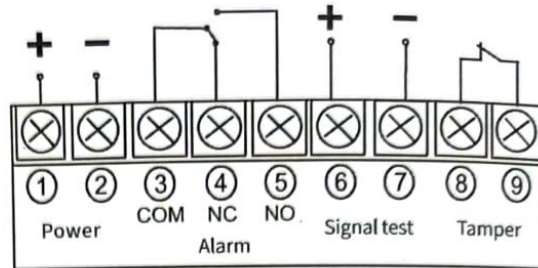
- 6, 10: Lock screw
7, 9, 11: Lens
8: Horizontal alignment Bolster
12: Adjusting screw

4). Connector

Transmitter



Transmitter



Receiver

Power :① and ② are power input,support DC9~30V/AC9~20V

Tamper:③ and ④ are tamper output

Receiver

Power :① and ② are power input,support DC9~30V/AC9~20V

Alarm:③、④ and ⑤ are alarm signal output,NC\NO selectable

Signal test: ⑥ and ⑦ are signal test terminals. Signal test is used to test alignment. during the test, the signal voltage is not less than 4.3 V. ⑥ is +,and ⑦ is -;

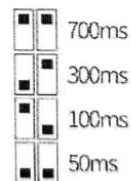
Tamper:⑧ and ⑨ are tamper output

5). DIP Switch Explanations

Receiver

DIP Switches:Set interruption

time.50ms/100ms/300ms/700ms(adjustable)



6). Indicator



Receiver



Transmitter

Note: Both LEVEL and GOOD are indicators,GOOD means the signal is better than LEVEL.

- LEVEL(Blue)indicator: it has 4 states: Off, slow flashing, fast flashing, and On. When the receiver don' t have signal, it goes off. When the receiver have signal, it slow flashing. The stronger the signal strength, the faster the LEVEL indicator flashes until it is constantly on.

- **GOOD(Green)indicator:**it has 4 states: Off, slow flashing, fast flashing, and On. When the signal reaches a certain strength, the **LEVEL(Blue)** indicator goes off, and the **GOOD** indicator enters a slow flashing state. The stronger the signal strength is, the faster the **GOOD** indicator flashes, until the signal strength is optimal, then the **GOOD** indicator is constantly on.
- **POWER indicator:**when power on, the indicator is on. (Note: After 30 minutes, the indicator will go off, which will not affect the operation of the transmitter. when the equipment is powered on again, the indicator will be on again.)
- **ALARM indicator:** When the alarm is triggered, the **ALARM** red indicator is on; It turns off when there is no alarm. (Note: In normal working, the signal indicator will go off after about 30 minutes, which will not affect the receiver's operation. After the alarm, the indicator will be on again.).

7). Alignment

- Adjust transmitter and receiver to a same level.
- Remove the cover
- Connect to power DC9~30V/AC9~20V
- Firstly adjust the receiver face to transmitter. See the indicator state to align.
- Adjust the angle by screws and the horizontal alignment bolster. meanwhile, the **LEVEL** indicator(blue) of the receiver changes from slow to fast flashing. it indicates that the optical alignment accuracy is well, until the indicator is constantly on.
- Continue to adjust, the **LEVEL** indicator is off, the **GOOD** indicator changes from slow to fast flashing, until the green indicator is always on, which means the signal strength is the best.
- At the same time, judge whether the detector is well aligned by measuring the voltage of the signal test terminals. After the signal is well aligned, can use a multimeter to measure the voltage of the signal test terminals of the receiver. The signal voltage is not less than 4.3 V. If the voltage is less than 4.3 V, it need to realign it.
- **Alarm test:**When intruder enter the protection area, the **ALARM** red indicator of the receiver lights up and the relay acts; When the intruder leave the area, it goes off and the relay recovers.

8). Installation

8.1). Wall mounting:

- Loosen the screw and remove the cover
- Punch two mounting holes on the target wall
- Wire hole: remove the foam plug, pull wire through, leave about 10cm wire length for wiring, and then insert the foam plug into the original position;
- Fix the body on bracket
- Connecting wires to the terminals and align the detector

- Review and reset the cover

8.2). Pole mounting:

- Break out the wire hole and pull out the wires.
- Remove the cover
- Wire hole: remove the foam plug, pull wire through, leave about 10cm wire length for wiring, and then insert the foam plug into the original position;
- Fix the body on bracket
- Connecting wires to the terminals and align the detector
- Review and reset the cover

9). Intallation notes

- Do not install on an unsteady or moveable base;
- Do not install the unit where objects can block the beams like plants and laundry moving the wind.
- Prevent direct sunlight onto the Rx or Rx, which can cause damage to the detector
- Avoid cross talk
- Avoid exposing wiring