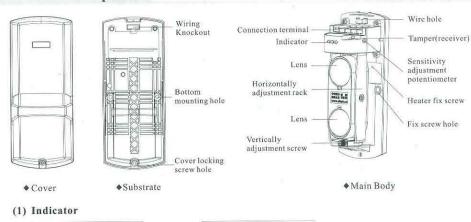
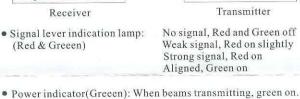
Photoelectric dual beam detector User Manual ABT-40 ABT-60 ABT-80 ABT-100 ABT-100P





Power

Signal Lever



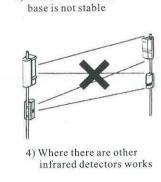
Alarm

2. Setting notice

• Alarm indicator(Red): Red on when alarm triggered.

(1) Do not mount the detectors in following conditions:

1) Where installation



(2) Normal mounting:



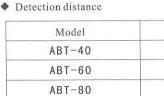
5) Do not let the wires in the air

Beam spread angle

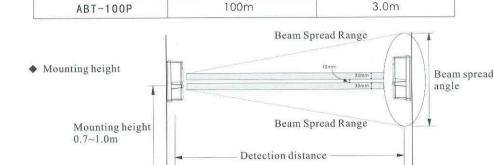
1.1m 1.2m

1.8m

2.4m



ABT-100

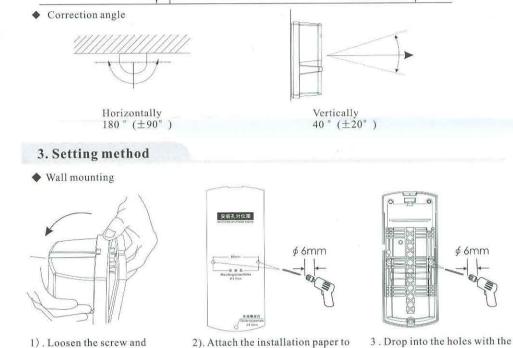


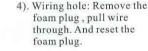
Detection distance

40m

60m

80m 100m





Pole mounting

Bracket diameter Φ38~ Φ50mm 1). Break out the wire

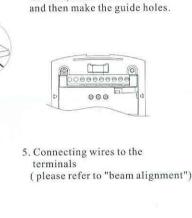
hole and pull out the

 $4 \times 30 \text{mm}$

wires

remove the cover

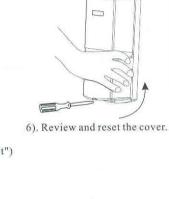
wiring hole



the wall, mark the holes first

2). Remove the cover pipe, fix it with screws.

/!\(Warning): Do not connect to voltage and current which are not normal specification!



expansion pipe, fix it with

screws.

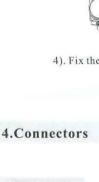
配线孔

000

3). Drop into the holes with the expansion

H F





(2) 3 4 Power Heater Transmitter

1 2 3 4 6 6 7
COM NC ON
Power Alarm output Heater

Receiver

5. Connecting wires

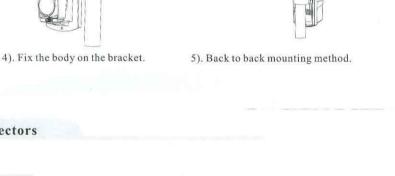
Single connect: Connecting to power supply parallel(as follows)

(1).Examples

Signal test

(9)

Tamper



■ Notes: 1. Power voltage input: DC/AC 12V-24V;

2. No heater in the package.

Please order if required.

■ Notes: 1. Power voltage input: DC/AC 12V-24V; 2. Relay connector: 1C 24V 0.5A max

if required.

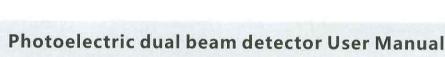
3. No heater in the package. Please order

4. Signal test is used for testing the optical

alignment degree. At least 1.5V signal voltage when testing. 7 is the negative

Receiver

electrode, 8 is positive electrode. 5. Tamper is separately from other circuit, works when the cover is removed



⊕ 12VDC Alarm input

Control panel

Multiple connect, NC alarm output: series connection; NO alarm output: parallel connection. Series connection as follows:

Transmitter

Voltage

wire diameter length

6. Beam Alignment

0.5mm2(diameter0.8)

0.75mm2(diameter1.0)

1.0mm²(diameter1.2)

1.5mm2(diameter1.4)

7. Beam interruption time adjustment

· Please double check when finished

interruption time

Signal Lever

8. Operation confirmation

Alarm

Please make sure the alarm

Transmitter LED does

Red indicator on

receiver flashing

Intermittent alarm

Model

Detection

distance(Indoor) (Outdoor)

Maximum detection

If not, please redo the

symptom

indicator is off before testing.

Alarm status

Adjust the beam interruption time depends on the bodies moving speed. When interrupted occasionally by a bird or paper, set longer respond time

Transmitter Note: Power supply DC12V if works together with the control panel.

(2). The distance between the power and the detector should not be longer than the following.

DC12V

150m

200m

300m

500m

ABT-60 ABT-80 ABT-100 ABT-100P

Transmitter

⊕ 12VDC Alarm input

Control panel

DC24V

800m

1000m

1500m

2500m

The sensitivity adjust potentiometer works by setting

Counterclockwise adjust, longer interruption time,

Signal Lever

Alarm status

Alarm indicator turns on when

beam is interrupted, test

finished successfully.

Check the power supply and wirling

1. Check the wire connecting

2. Back to your supplier

2. Check the power supply

3. Remove the blocks

4. Fix the mounting

ABT-100

300

100

78mm

ABT-100P

300

100

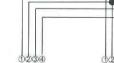
1. Check wiring

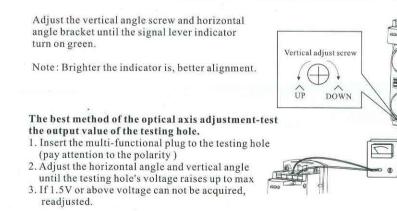
Remedy

Clockwise adjust, shorter interruption time,

Receiver

Note: Do not do the test at 45 degree





the interruption time:

higher sensitivity

lower sensitivity

alignment. 3. In the middle 9. Troubleshooting

Possible cause

Improper power supplied

3. The cover is dirty

1. Bad wire connecting

2. Fluctuant power voltage

3. Movable blocks between the transmitter

4. The installation base is unstable

ABT-60

180

60

ABT-80

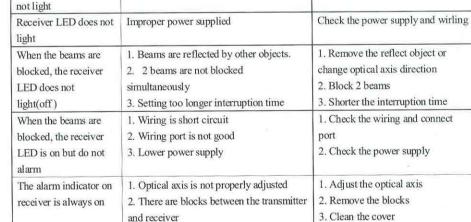
240

80

2. Bad receiver board

1. Bad wiring

positions



Please do the test at the 3 following

1. At the transmitter side

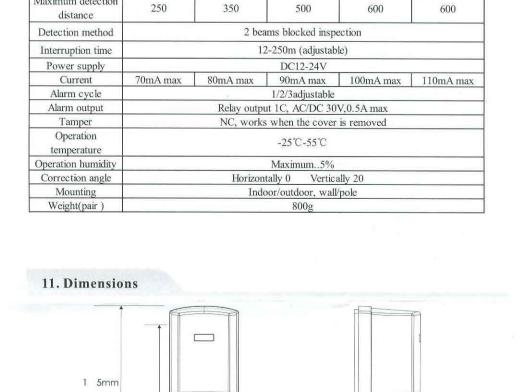
2. At the receiver side

10. Specifications

ABT-40

120

138mm



Ø38-50mm External diameter of the bracket

80mm