

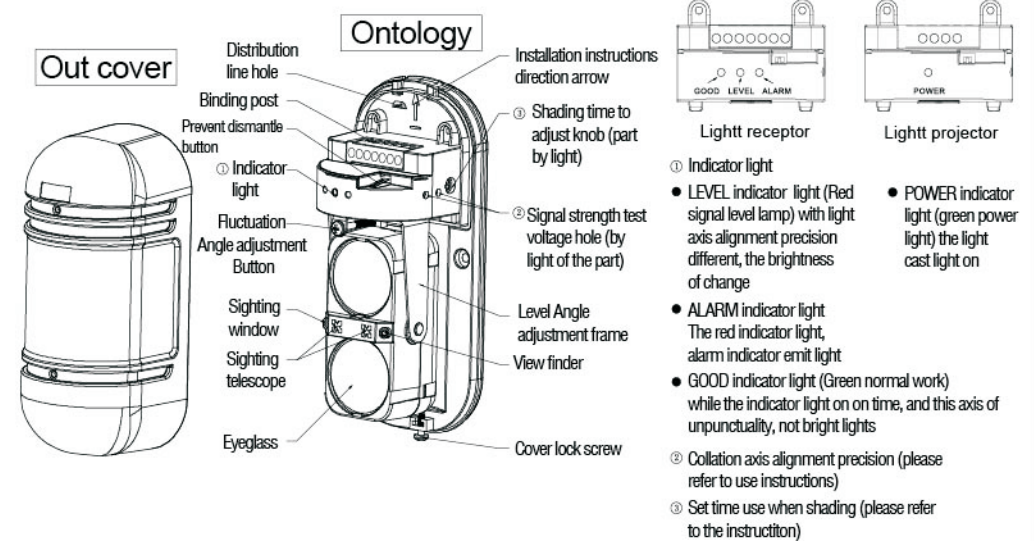
## Double beam pure digital type by the initiative invasion detectors

### DUAL PHOTOELECTRIC DETECTOR

#### Installation using guide

ABT-30	(Outdoor30M Indoor90M)
ABT-60	(Outdoor60M Indoor180M)
ABT-80	(Outdoor80M Indoor240M)
ABT-100	(Outdoor100M Indoor300M)
ABT-150	(Outdoor150M Indoor450M)

## 1 PART NAME



- ① Indicator light
- LEVEL indicator light (Red signal level lamp) with light axis alignment precision different, the brightness of change
- ALARM indicator light The red indicator light, alarm indicator emit light
- GOOD indicator light (Green normal work) while the indicator light on on time, and this axis of unpunctuality, not bright lights
- ② Collation axis alignment precision (please refer to use instructions)
- ③ Set time use when shading (please refer to the instruction)
- POWER indicator light (green power light) the light cast light on

## 2 Install Caution ⚠

- Please avoid in the following occasions to install the detectors



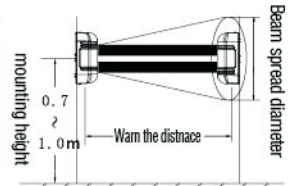
When installation is among obstacles such as trees

Install base does not stable

By sunshine or the light point-blank

#### Installation height and warn the distance

	Warn the distance	Beam spread diameter
ABT-30	30m	0.9m
ABT-60	60m	1.8m
ABT-80	80m	2.4m
ABT-100	100m	3.0m
ABT-150	150m	4.5m

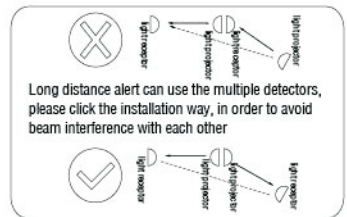


#### ● Axis adjustment range

horizontal direction 180° (±90°) vertical direction 20° (±10°)



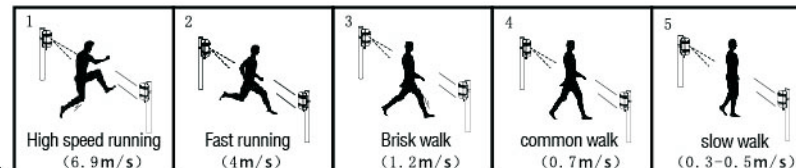
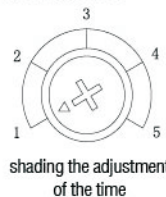
the horizontal direction 90° or the vertical direction 10° axis adjustment



Long distance alert can use the multiple detectors, please click the installation way, in order to avoid beam interference with each other

## 3 Shading the adjustment of the time

By light device on the shading time to adjust, please refer to the general situation, set time should be a little smaller than the intruder alert through the time needed for the surface



## 4 Operation confirmed

After complete set, must be walk test, please refer to form operation the confirmation

	status	expression
Light projector	Cast light	POWER Indicator Light
Light receptor	Alert when	GOOD、LEVEL Indicator Light
	Alarm when	ALARM Indicator Light

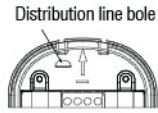
# 5 Installation method

1. Dismantling the screw, and take cover

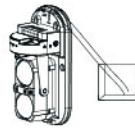


Installed in the method on the wall

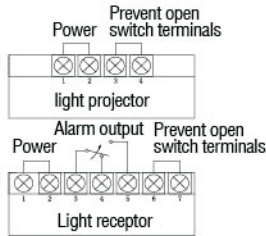
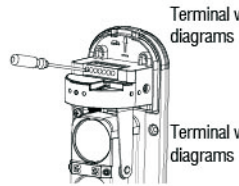
2. Through the cable wiring hole on the wiring



3. The ontology fixed in the wall



4. The cable access wiring terminal



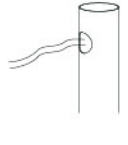
5. Finish the adjustment of the optical axis shading time after packed the outer garment

By the letter of the machine body to wiring distance

Wire Diameter	voltage	DC12V hour	DC12V hour
0.5mm (diameter 0.8)		300m	600m
0.75mm (diameter 1.0)		400m	800m
1.25mm (diameter 1.2)		700m	1400m
2.0mm (diameter 1.6)		1000m	2000m

Fixed bracket installation method

1. On the stent drive hole and draw out cable good lead

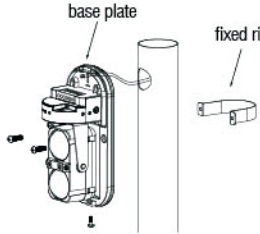


Stents outer diameter 38-50mm

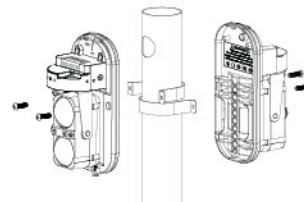
2. Take off cover outer cover



3. Fixed the ontology in holder



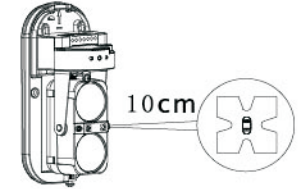
when back to back installation, reference below picture



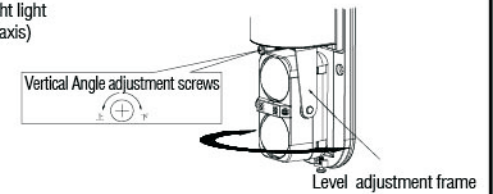
# 6 Axis adjustment

1. Take cover input power supply after

2. Form a sight about 10 cm observation aimed at effect



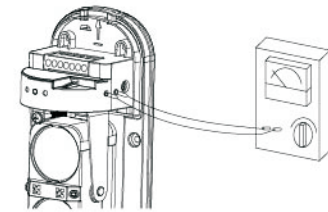
3. Adjust the vertical Angle adjustment screws and level adjustment frame, make the opposite of detector images fall into place intermediate aimed at hole, this time for GOOD instructions by light kiss should not bright light (indicator please continue to adjust the optical axis)



The bright red LEVEL indicator, the more accurately drawtube

The best of the optical axis adjustment method-signal strength test voltage output of the hole

1. Insert the test pen test a hole (note +, - polarity) the first level Angle, until the test voltage output hole is the largest, and then made the vertical adjustment, method and level the same Angle
2. If GOOD indicator light not light, the light is cast by light and is to be adjusted, and GOOD indicator, indicates that beam already alignment
3. If the test hole can't get 2.5V or above voltage, the light cast bu light and is the need to make adjustments



# 7 When an exception that the inspection

failure	failure cause	countermeasure
The bright lights for the light	The power supply voltage is not suitable for (break line, short circuit, etc)	Check the power supply wiring
The bright lights by light		Check the power supply wiring
Light is interrupt, the bright lights by light	1) For reflection or other cast light is light into the by light 2) Two beams of light was also not interrupt 3) Shading time setting too short	1) Remove reflection object or change optical axis 2) At the same time interrupt two beams of light 3) Shading extended time
Light is interrupt Light receptor indicator light inoperative After block light, the alarm indicator light by light, but no alarm signal output	1) Wiring or short circuit breakers 2) Contact contact undesirable	Examine the wiring and contacts
The alarm by light ChangLiang indicator	1) Axis don't coincide 2) Cast, by light between the obstacles 3) Cover is dirt pollution	1) Readjust the axis 2) Remove obstacles 3) Cleaning cover
Off and on have a warning signal output	1) Distribution bad 2) The power supply voltage has changed 3) Cast, by light there is activity between the obstacles 4) Installed base is not stable 5) Axis coincidence precision insufficient 6) Other mobile object shading	1) examine the wiring 2) Check The Power 3) Remove obstacles or chang place Settings 4) Choose explicitness place 5) To reset a axis 6) Adjust the shading time or change installation place

# 8 technical parameters

model	ABT-30	ABT-60	ABT-80	ABT-100	ABT-150	
Warn the distance	outdoors	30m	60m	80m	100m	150m
	indoor	90m	180m	240m	300m	450m
Beam number	Two beams of light					
Detection Model	Two beams of light and even break it checks type					
illuminant	Infrared digital pulse					
sensing device	50-700ms					
Alarm output	Relay contacts output 1c (COM、 NC、 NO) contact capacity A/C D/C 30V 0.5A max					
supply voltage	AC 12-18V DC 12-24V Minimum Power 3W					
Current consumption	transmitter + receiving set ≤85mA					
Use humidity scope	-25°C ~ 55°C					
overall dimensions	reference outside view					
Prevent demolished output	Contact output: 1B (COM、 NO), The contact point capacity AC/DC 30V 0.5A max					
adjust the Angle (level)	180° ~ (±90°)					
Axis adjust the Angle	20° ~ (±10°)					
The dew, the frost countermeasures	Heating type cover (and buy)					
Other additional function	By light show, OK instructions, test terminals					
material	PC (cover) +ABS (Ontology)					
net weight	535g (light projector + Light receptor each pieces)					
gross weight	740g					

# 9 outline dimensional drawing

