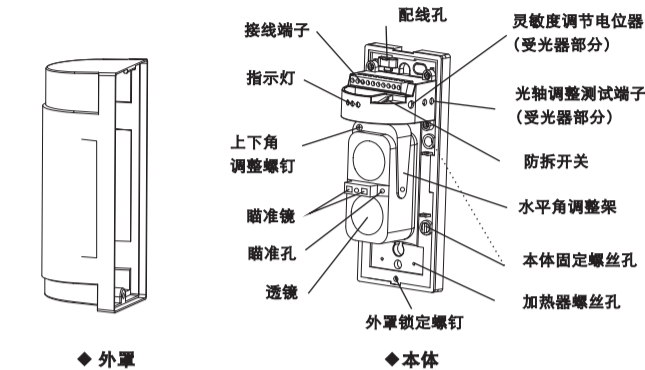


双光束数码主动红外入侵探测器

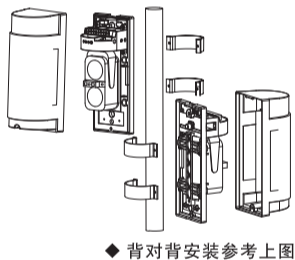
使用说明书

1.各部件名称

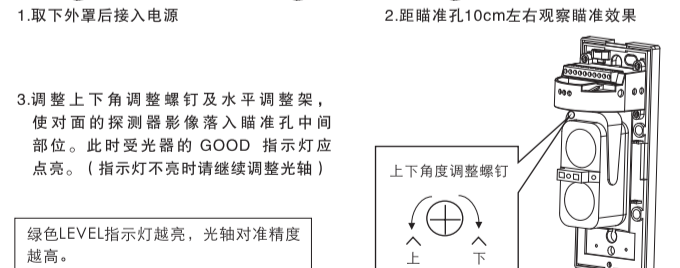
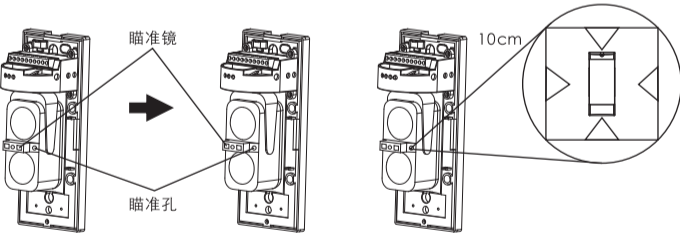


- LEVEL指示灯(绿色): 随光轴对准精度不同, 亮度发生变化。
- ALARM指示灯(红色): 报警时点亮指示。
- GOOD指示灯(绿色): 光轴对准时绿灯亮, 光轴不对准时, 不亮灯。
- POWER指示灯(绿色): 投光时点亮。

- (2) 瞄准镜
校验光轴对准精度时使用
(使用方法请参照“4.光轴调整”)
- (3) 灵敏度调节电位器
通过调节遮光时间来设定灵敏度等级(见右图), 其中1挡为灵敏度最高等级, 5挡为灵敏度最低等级 (出厂已设置为:最高灵敏度)
-



4.光轴调整



- ◆调整光轴的最佳方法——量度测试孔的输出电压
- 1.将测试笔插入测试孔位 (注意“+”“-”)。
 - 2.先调水平角度, 直至测试孔电压输出最大, 然后作垂直调整, 方法与水平角度相同。
 - 3.如果电压低于1.5V, 则投光器及受光器需要再作调整。

5.动作确认

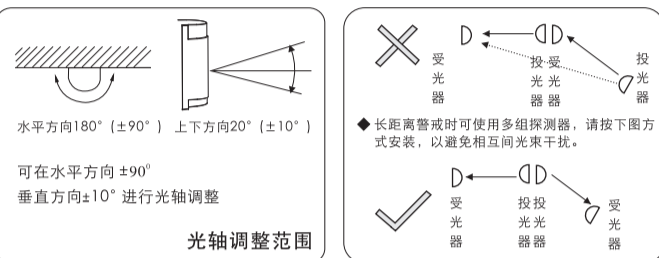
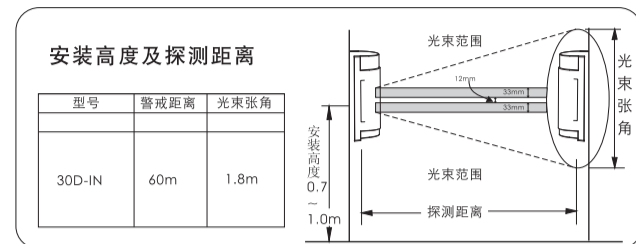
名称	状态	表示
投光器	投光时	绿色LED点灯
	警戒时	GOOD/LEVEL指示灯点亮
受光器	警戒时	GOOD/LEVEL指示灯点亮
	报警时	报警指示灯点亮

完成设置后, 必须进行遮挡测试:
① 在投光器前;
② 在受光器前;
③ 在投光器与受光器的中间位置。
请参照左侧表格进行动作确认。

注: 对准调试完成后, 探测器默认进入正常警戒状态, 为节省电源消耗, GOOD、LEVEL两灯在约15分钟后熄灭, 直至下次产生报警时重新点亮。

2.安装注意事项

请避免在以下场合安装本探测器



3.安装方法

墙体安装

1. 拆下固定螺丝钉取下外罩
2. 将附带的安装孔对位图粘纸上, 按其孔位打孔 (孔径φ6mm)
3. 取出椭圆防水胶圈, 穿孔过线后将椭圆防水胶圈装回进线孔位
4. 将本体固定在墙上

6.故障时的处理

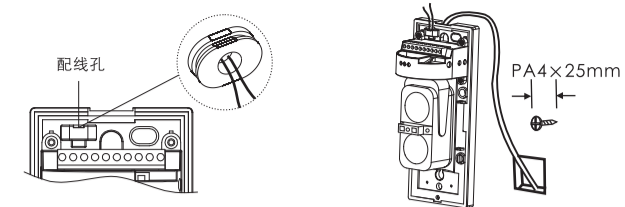
故障	故障原因	对策
投光器指示灯不亮	电源电压不适合 (断线, 短路等)	检查电源配线
受光器指示灯不亮	电源电压不适合 (断线, 短路等)	检查电源配线
光线被遮断, 受光器不报警	1.因反射或其它投光器的光线进入受光器 2.两条光束没有同时被遮断 3.遮光时间设定过长	1.除去反射物体或变更光轴方向 2.同时遮断两束光 3.缩短遮光时间
遮断光线后, 受光器报警指示灯亮但无报警信号输出	1.配线断路或短路 2.接点接触不良 3.电源电压过低	1.检查配线 2.检查接点 3.检查电源电压是否正常
受光器的报警指示信号常亮	1.光轴不重合 2.投、受光器之间有障碍物 3.外罩被污物污染	1.重新调整光轴 2.清除障碍物 3.清洗外罩

故障	故障原因	对策
受光器的报警指示信号闪烁	1. 信号线连接不良 2. 接收板故障	1. 紧固连接线 2. 请联系当地经销商
断断续续有报警信号输出	1.配线不良 2.电源电压变动 3.投、受光器之间有活动障碍物 4.安装基础不稳固 5.光轴重合精度不够 6.其它移动物体遮光	1.检查配线 2.检查电源 3.去除障碍物或改变安装场所 4.选择基础牢固的场所安装 5.重新调校光轴 6.调整遮光时间或变更安装场所

注: 根据以上对策修正后, 故障仍无法排除, 请联系我司售后服务人员或当地经销商。

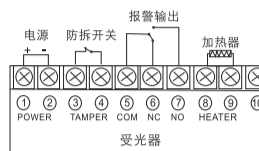
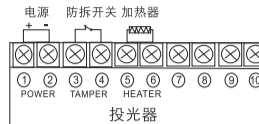
7.技术参数

型号	30D-IN					
警戒距离	室外	60m				
	室内	180m				
最大到达距离	650m					
光束数	2束					
探测方式	2光束同时遮断检出					
光源	红外LED					
感应速度	50-250msec连续可调					
报警时间	2S					
警报输出	继电器接点输出1C 接点容量AC/DC30V 0.5Amax					
电源电压	DC12~24V					
消耗电流	35mA max	40mA max	45mA max	55mA max	60mA max	65mA max
使用温度范围	-25度~70度					
外型尺寸	参照外型图					
防拆输出	常闭, 当外罩被移去时打开					



5.将线接于接线端子上

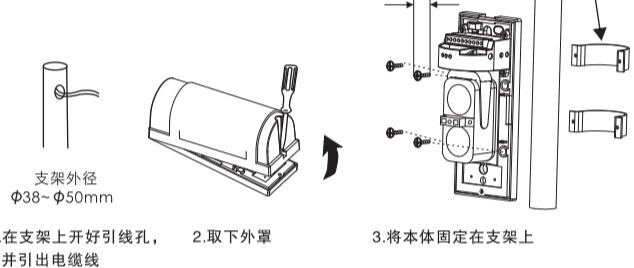
◆端子配线图



◆探测器到主机的配线距离

线径	长度	电压	DC12V	DC24V
0.5mm ² (直径0.8)			300m	1500m
0.75mm ² (直径1.0)			400m	2300m
1.0mm ² (直径1.2)			600m	3500m
1.5mm ² (直径1.4)			1000m	5000m

杆柱安装方式



7.技术参数

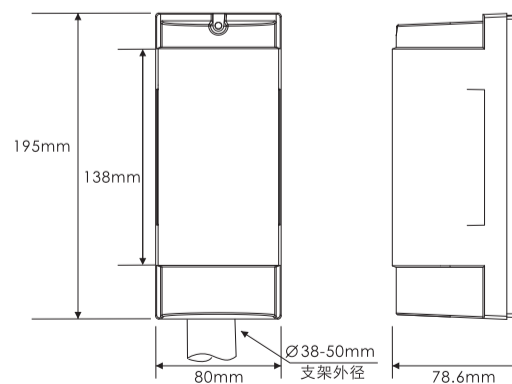
光轴调整角度(水平)	180度 (±90度)	
光轴调整角度(垂直)	20度 (±10度)	
IP防护等级	IP55	
材质	PC工程塑料	
重量	300g(受光器+投光器)	

8.附件清单

名称	数量	规格
U型架	2个	70.4*37.5*21.5mm, 厚1.5mm, 黑色喷砂处理
螺丝	4个	柱装PM4x30mm
	4个	墙装PA4x25mm
膨胀管	4支	φ7x27mm, 绿色
取付型纸	2张	W105*H215mm
*加热器	2个	选配件, 电流: 200mA max

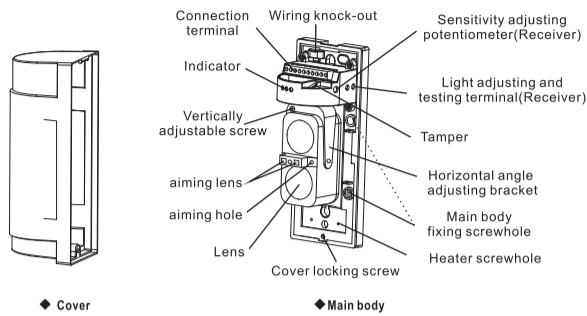
注: 当环境温度低于-20℃时, 请使用选购件中的加热器, 加热器两端的引线无极性要求。

9.外型尺寸图



Dual Beam Detector

1 Parts description



(1) Indicator



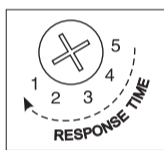
- LEVEL indication lamp (green) Brightness varies, depending on incident level.
- ALARM indication lamp (red) is on when indicating alarm.
- GOOD indication lamp (green) is ON when beams are aligned, is OFF when beams are not aligned.
- POWER indication lamp (green) is on when the light beam transmitting.

(2) Arming lens

Use it when adjust the precision of the optical axi (Refer to the operation instruction 4. Optic axis adjusting)

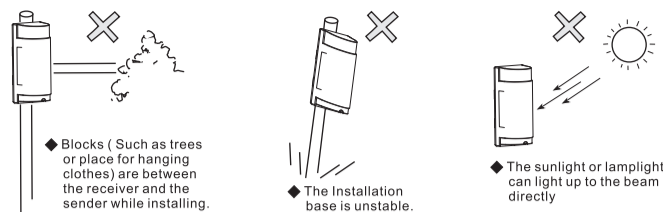
(3) Sensitivity adjusting potentiometer

We adjust the interrupting period by setting the sensitivity level. Level 1 is the highest sensitivity. And level 5 is lowest sensitivity. The factory default setting is level 1.

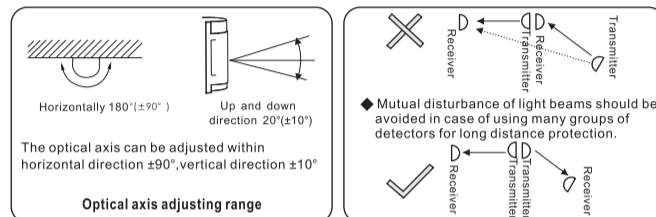


2 Setting Notice

Don't mount the detector at following areas.



Model	Protection distance	Detecting angle
30D-IN	60m	1.8m



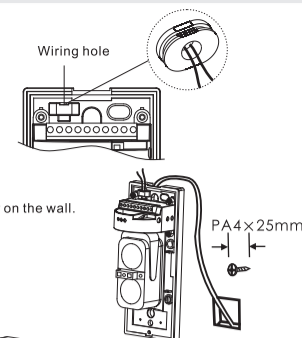
3 Mounting Method

Wall Mounted

- Loosen the fixed screw and remove the cover.
- Attach the mounting pattern paper to the wall, mark the installation holes, and drill the guide holes.

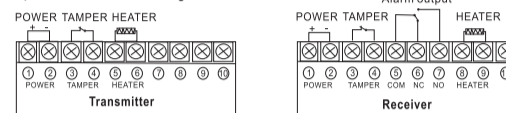


- Remove the oval waterproof rubber seal and drill the knock-out and pull wire through. Then install the waterproof rubber seal.



- Connecting wires to the terminal.

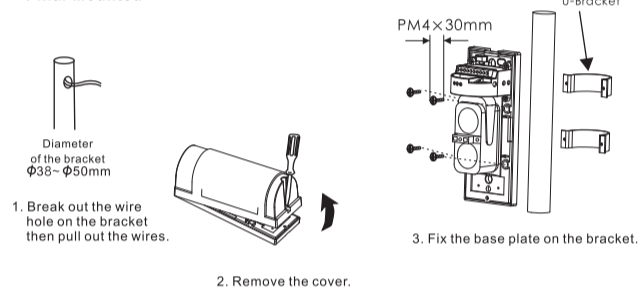
Terminal connection diagram:



The wired distance

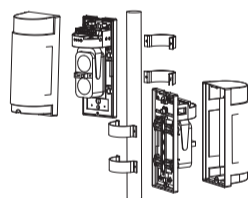
The diameter of line	Length	DC12V	DC24V
0.5mm ² (Φ 0.8)		300m	1500m
0.75mm ² (Φ 1.0)		400m	2300m
1.0mm ² (Φ 1.2)		600m	3500m
1.5mm ² (Φ 1.4)		1000m	5000m

Pillar Mounted



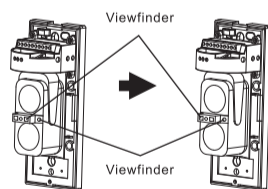
PHOTOELECTRIC DUAL BEAM DETECTOR MANUAL ACTIVE INFRARED SENSOR

- ◆ Back to back installation (Refer to the figure below)

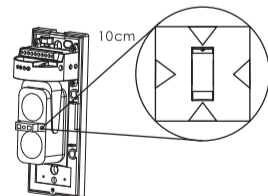


4 Beam Alignment

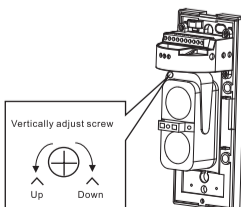
- Remove the cover, put through power.



- Look down the angled viewfinder alignment hole from a distance of approximately 10 cm. The detectors are properly aligned when the beam is in the center of the four alignment markers.

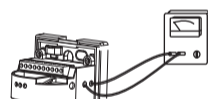


- Adjust the horizontal angle adjusting screw and bracket to let the opposite detector in the center of sight lens. The GOOD indication lamp should be on. (Adjust the light axis continuously if the indication lamp is not on.)



The brighter is green LEVEL indicator light, the higher of the precision of the light axis.

- ◆ To achieve the best optical alignment it is advised to use a volt meter connected to the output test point



- Insert the multimeter probes in to the test point. (Pay attention to the polarity.)
- Adjust the horizontal and vertical angles to obtain the maximum voltage from the test point.
- The test point voltage must be above 1.5 volts.

5 Troubleshooting

Name	Status	Indication
Transmitter	Transmitting	Green LED is ON
Receiver	Watching	GOOD/LEVEL indication is ON
	Alarm	Alarm indication lamp is ON

Operate the block test after installation:
 ① on the front of the transmitter
 ② on the front of the receiver
 ③ In the middle of the transmitter and the receiver.
 Please refer to the table on the left.

NOTE: When finishing the adjustment, the detector enters the default state of alert. In order to save power, the GOOD and LEVEL LED will turn off after 15 minutes if there is on alarm signal.

6 Operation confirmation

Symptom	Possible Cause	Remedy
Transmitter LED doesn't light	Improper voltage supplied.	Check the power supply and wiring.
Receiver LED doesn't light	Improper voltage supplied.	Check the power supply and wiring.
Alarm LED doesn't light, even when beams are blocked	1. Beams are reflected to the receiver by other objects. 2. 2 beams are not blocked. 3. Interruption time is too long.	1. Remove the reflecting object or change the optional axis direction. 2. Shade 2 beams. 3. Shorten the interruption time.
When the beams are blocked, the receiver LED is on, but not causing an alarm.	1. Wiring short circuit. And disconnection. 2. Contact missing. 3. Low power voltage.	1. Check the wiring. 2. Check the junction. 3. Check the power supply.
The alarm indication lamp on the receiver is always on	1. Optical axis is not properly adjusted 2. There are blocks between the transmitter and the receiver. 3. The detector cover is dirty.	1. Adjust the optical. 2. Remove the blocks. 3. Polish with soft cloth.
The alarm LED on the receiver flashes.	1. The single line doesn't connect well 2. There are some troubles on the receiver board	1. Fasten the wiring. 2. Get in touch with distributor
Intermittent Alarm	1. Bad wiring 2. Fluctuating power supply 3. Movable blocks between the transmitter and the receiver 4. The installation base is unstable 5. Optical axis is not properly adjusted 6. Blocked by other objects	1. Check wiring 2. Check the power supply 3. Remove the blocks for relocate 4. Fix the mounting base 5. Adjust interruption time or 6. Change installation position 7. Adjust the optical axis

NOTE: If you check your problem as above, it doesn't work. Please get in contact with our after-sale service personnel and distributor.

7 Technical parameter

Model	30D-IN					
Detecting distance	Outdoor	60m				
	Indoor	180m				
Longest distance	650m					
Beams	2 beams					
Detection Method	2 beams detecting at the same times.					
Light Source	Infrared LED					
Interruption Period	50~250m sec					
Alarm Period	2S					
Alarm Output	Relay junction standard: 1C; AC/DC: 0.5A, 30V max.					
Power Voltage	DC 12~24V					
Current Consumption	35mA max	40mA max	45mA max	55mA max	60mA max	65mA max
Operating Temperature	-25°C~70°C					
Dimension	Look at the outside drawing					
Tamper Output	NC. When moving the shell, the tamper output open.					
Optical axis adjustment(Horizontal)	180°(±90°)					
Optical axis adjustment(Vertically)	20°(±10°)					
Waterproof rote	IP55					
Material	PC engineering plastic					
Weight	300g(Transmitter and Receiver)					

8 Attachment List

Name	Number	Specification
U-Frame	2	70.4*37.5*21.5mm, Thickness 1.5mm, Black sanding
Screw	4	Pole mounted: PM 4 * 30mm
	4	Wall mounted: PA 4 * 25mm
Bulged tube	4	Φ 7 * 27mm, Green
Paper	2	W 105 * H215mm
Heater	2	Optional; Current: 200Ma max

NOTE: When the temperature is below -20°C please use the heater. There is no polarity requirement for HEA terminal.

9 Dimension

