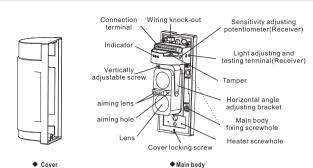
Dual Beam Detector

20D-IN(outdoor 20m Indoor 60m) 40D-IN(outdoor 40m Indoor 120m) 80D-IN(outdoor 80m Indoor 240m) 30D-IN(outdoor 30m Indoor 90m) 60D-IN(outdoor 60m Indoor 180m) 100D-IN(outdoor 100m Indoor 300m)

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

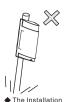
We adjust the interrupting period by setting the sensitivity level. Level 1 is the highest sensitivity. And level 5 is lowest sensitivity. The factory default setting is level 1.



2 Setting Notice

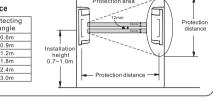
nt the detector at following areas.

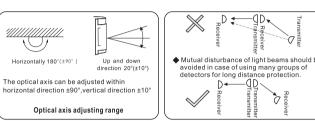












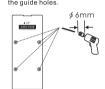
3 Mounting Method

Wall Mounted

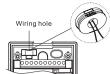
Loosen the fixed screw and remove the cover.

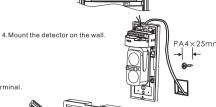


2. Attach the mounting pattern paper to the wall, mark the installation holes, and dirl

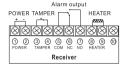


and drill the knock-out and pull wire through Then install the waterproof rubber seal



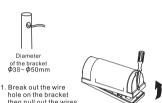


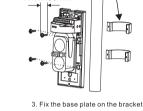
POWER TAMPER HEATER ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ POWER TAMPER HEATER



Voltage The diameter of line Length	DC12V	DC24V
0.5mm² (Φ 0.8)	300m	1500m
0.75mm² (Φ 1.0)	400m	2300m
1.0mm² (Φ 1.2)	600m	3500m
1.5mm² (Φ 1.4)	1000m	5000m

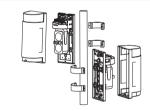
Pillar Mounted





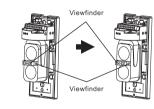
PHOTOELECTRIC DUAL BEAM DETECTOR **MANUAL ACTIVE INFRARED SENSOR**

Back to back installation (Refer to the figure below)

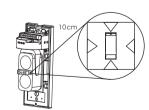


4 Beam Alignment

1.Remove the cover, put through power



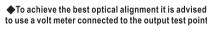
2. Look down the angled viewfinder alignment hole from a distance of approximately 10 cm. The detectors are properly aligned when the beam is in the centre of the four alignment markers.

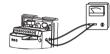


,ust

 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.





- 1. Insert the multimeter probes in to the test point. (Pay attention to the polarity.)
- 2. Adjust the horizontal and vertical angles to obtain the maximum voltage from the test point.

3. The test point voltage must be above 1.5 volts.

5 Troubleshooting

Name	Status	Indication	
Transmitter	Transmitting	Greed 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 ease refer to the table on the left

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

Technical parameter

Mod	iel	20D-IN	30D-IN	40D-IN	60D-IN	80D-IN	100D-IN	
Detecting distance	Outdoor	20m	30m	40m	60m	80m	100m	
	Indoor	60m	90m	120m	180m	240m	300m	
Longest d	istance	250m	350m	450m	650m	900m	1100m	
Beams				2 beams				
Detection	Method	2 beams detecting at the same times.						
Light S	ource	Infrared LED						
Interruptio	n Period	50~250m sec						
Alarm P	eriod	28						
Alarm C	utput	Relay junction standard: 1C; AC/DC: 0.5A, 30V max.						
Power V	oltage	DC 12~24V						
Current Consumption 35		35mA max	40mA max	45mA max	55mA max	60mA max	65mA max	
Operating T	emperature	nperature -25℃~70℃						
Dime	nsio	Look at the outside drawing						
Tamper (Output	NC. When moving the shell, the tamper output open.						
Optical axi	tical axis adjustment(Horizontal) 180°(±90°)							
Optical ax	Optical axis adjustment(Vertically) 20°(±10°)							
Waterpro	of rote	IP55						
Mate	rial	PC engineering plastic						
Wei	ght	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	∮7 * 27mm, Green	
Paper	2	W 105 * H215mm	
Heater	2	Optional; Current: 200Ma max	

 $\textbf{NOTE:} \ \text{When the temperature is below -} 20\% \ please \ use the heater. There is no polarity requirement$



