Frequency Adjusted Infrared Detector Manual

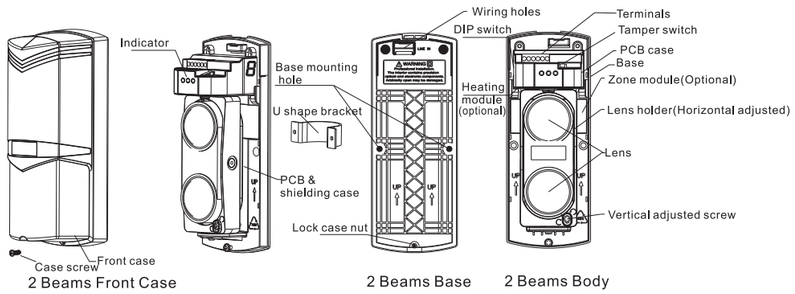
2 Beams Series: Outdoor 30/60/100/150 meters

Thanks for choosing this photoelectric infrared detector, please read this instruction manual carefully before installation,and keep it for future reference.

⚠ Warning	Do not use the product for purposes other than the detection of moving obejects such as people and vehicles.
	Do not touch the unit base or power terminals with a web hand(do not touch when the product is wet with rain etc.).It may cause electric shock.
	Never attempt to disassemble or repair the product, it may cause fire or damage to the devices.
	Do not exceed the voltage or current rating specified for any of the terminals during installation, doing so may cause fire or damage to the devices.
⚠ Caution	Do not pour water over the product. The water may enter, which may cause damage to the devices.
	Clean and check the product periodically for safe use.
	The product are designed to detect intruder.we will not accept responsibility for any damages or other consequences resulting from an intrusion.

Remarks: the details as below only apply to 2 beams,3 beams.

Part Name



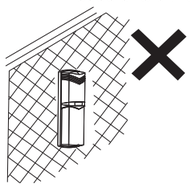
2 Beams Front Case　　2 Beams Base　　2 Beams Body

Features

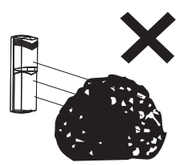
1.Beam interruption time adjusted.
2.Form C relay providing more applications.
3.Tamper switch NC, open when remove case.
4.4 channel frequency adjusted, anti-interference,suitbable for long distance and stack use.
5.Digital tube display received signal strength, easy to debug.
6.Wide voltage and energy saving design.
7.Digital communication function.
8.Alignment angle:±90° horizontally,±10° vertically.
9.Waterproof grade IP65.
10.Digital filtering, environment adaptive function, minimum false alarm.
11.The lowest beam interference, can be used in all kinds of complicated environment.

Installation

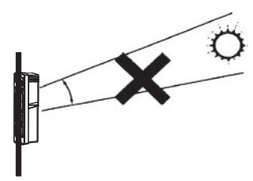
1. Please avoid these situations below to assure product performance:



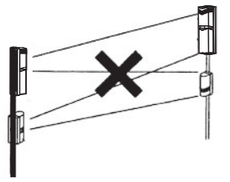
①Mount on a solid surface, do not install on unsteady surface.



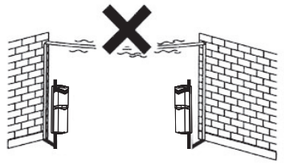
②Do not install the unit where objects moved by the wind such as plants and laundry, which may block the beam.



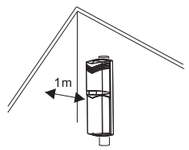
③Prevent direct sunlight or light from entering into product internal.



④Avoid the beam from other detectors entering the receiver.



⑤Avoid aerial wiring.

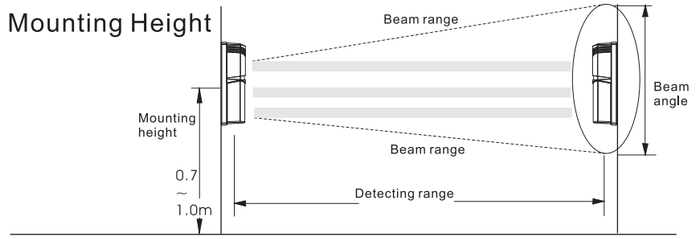


⑥Please install the detector away from wall or fence at the distance of more than 1m.

General Installation Detecting Distance

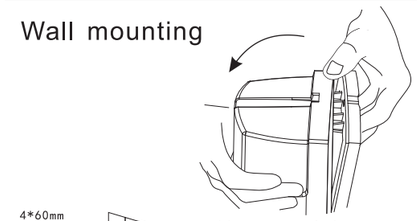
Model	Detecting Distance	Beam Angle
2 beams 30 meters	30m	1.2m
2 beams 60 meters	60m	1.6m
2 beams 100 meters	100m	2.0m
2 beams 150 meters	150m	2.4m

2 Beams Angle

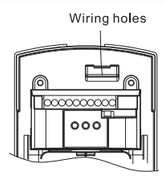


Intallation Way

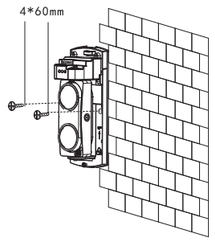
Wall mounting



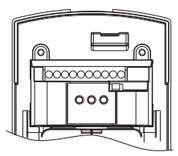
1.Loosen cover lock screw, remove front cover



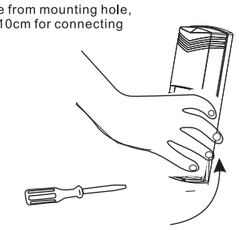
2.Pull out wire from mounting hole, keep wire as 10cm for connecting



3.Put expansion pipe into 4 mounting holes, then fix them with screw



4.Connect wire and beam alignment (Please refer to "optical axis alignment")

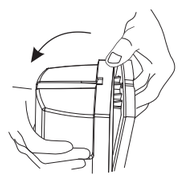


5.Check operation, cover the case and fasten screw

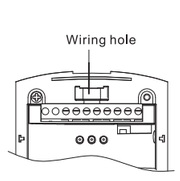
Pole Mounting

Bracket outer diameter
Φ38~ Φ50mm

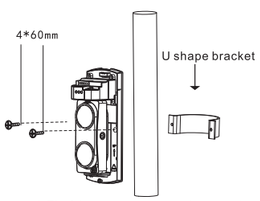
1.Pull out wire from stand



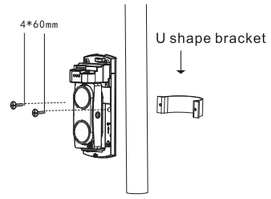
2.Remove front cover



3.Pull out wire from mounting hole, keep wire as 10cm for connecting



4.Fix 2 beams sensor to the stand



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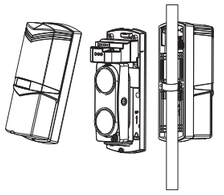
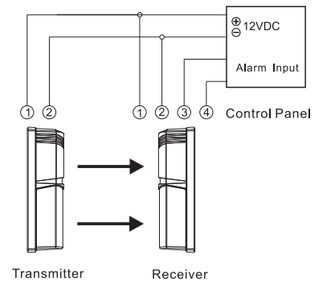
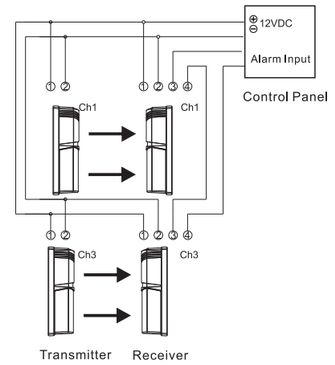


5.2 beams sensor install back to back

Wiring



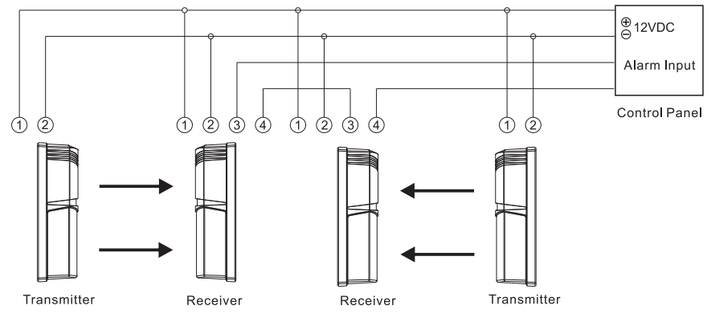


1 set wiring:

The power of transmitter and receiver are paralleled, using DC 12V by control panel, alarm output is NC as below:

2 sets wiring:

The power of the transmitter and receiver are paralleled connection,using DC 12V by control panel,alarm output is NC and series connection as below:



2 sets of series installation:The power of the transmitter and receiver are paralleled connection, using DC 12V by control panel,alarm output is NC and series connection.

■ The wire length between power supply and detector should not exceed as below:

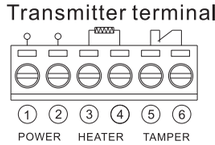
Diameter \ Voltage (Length)	DC12V	DC 24V
0.5mm² (Diameter 0.8)	100m	500m
0.75mm² (Diameter 1.0)	150m	750m
1.0mm² (Diameter 1.2)	200m	1000m
1.5mm² (Diameter 1.4)	250m	1250m

⚠ Caution

1.Power wire can not exceed the listed length.
2.When connect more detectors, the needed wire length is obtained by listed length divided by number of units used.
3.Do not connect terminals to exceed voltage specified,doing so might damage device or cause fire.

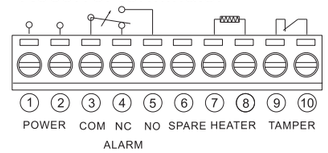
Wire Connection

Transmitter terminals:



1.Power input DC 10V-24V
2.Optional heater, standard without heater

Receiver terminals:



1.Power input DC 10V-24V
2.Optional heater, standard without heater
3.Relay contact 1C 30V DC 0.5A max