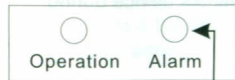
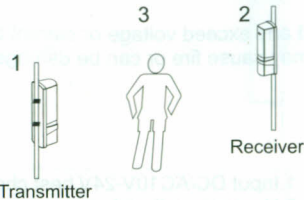


10. Walk test



Alarm LED indicator

The alarm LED indicator should be OFF. If the LED indicator is ON even though the beams are not blocked, re-align the beams and check wiring.



After alignment, block the beams as below:
 >> In front of transmitter.
 >> In front of receiver.
 >> In the middle of transmitter and receiver.



Alarm LED is on

If the alarm LED indicator is ON when the beams are blocked, this means installation is successful.

Note: If the alarm LED indicator is OFF even though the beams are completely blocked, refer to the "trouble shooting".

11. Trouble shooting

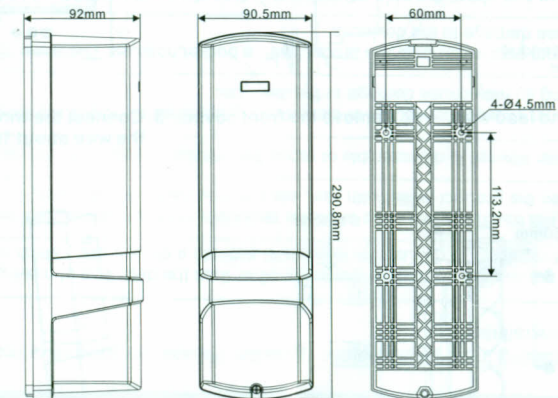
Indication	Reasons	Solution
LED off when power up	<ol style="list-style-type: none"> 1. Operation DIP switch is at energy-saving (OFF) mode. 2. Power cables are not properly connected, input power is not within the requirements, and the power line is too long or short circuit. 	Set operation DIP switch to ON.
All beams are blocked, but no alarm output.	<ol style="list-style-type: none"> 1. The receiver may be affected by other beam transmitters or by a reflecting object. 2. Beams are not all blocked. 3. Interruption time is too long. 4. Alarm output wire false connection 	<ol style="list-style-type: none"> 1. Remove other transmitters and reflecting object and then conduct walk test. 2. Turn the interruption time to appropriate one. 3. Select the same frequency channels. 4. Check the receiver terminal and output wire circuit.
No beams blocked, LED is on, alarm triggered.	<ol style="list-style-type: none"> 1. Beams are not properly aligned. 2. The transmitter does not work. 3. There are objects that may block the beams. 4. Front cover is dirty or with ice or snow. 5. Frequencies setting are not correct. 	<ol style="list-style-type: none"> 1. Realign the beams. 2. Check if any block between transmitter and receiver. 3. Ensure the same frequencies of transmitter and receiver. 4. Clean the front cover 5. Check the power supply, current and wires of transmitter.
False alarm	<ol style="list-style-type: none"> 1. Bad wiring or corroded wires. 2. Moving blocking objects, such as birds, leaves. 3. Unstable installation base 4. Bad alignment. 5. Transmitter power is set to L. 	<ol style="list-style-type: none"> 1. Check and change the wiring. 2. Change the installation position. 3. Stable the installation base. 4. Realign the beams. 5. Change the power of transmitter to H.

12. Specifications

Model		ABE-50F	ABE-100F	ABE-150F	ABE-200	ABE-250F
Range	Out door	50m	100m	150m	200m	250m
	In door	150m	300m	450m	600m	750m
Arrival distance(max)		300m	600m	900m	1200m	1500m
Detection methods		Infrared beams by interruptED at the same time				
Interruption period		50ms, 100ms, 300ms, 700ms(4 steps)				
Beam frequency		4 channel				
Power input		10V-24V DC/AC (12vdc recommendable)				
Current		90mA max				
Alarm period		2 sec(±1) nominal				
Alarm output		Form C-Solid State Switch(AC/DC30V 0.5A Max)				
Tamper switch		Activates when cover removed				
Weather proof		IP65				
Operating temperature		-25°C~55°C				
Environment humidity		95% max				
Alignment angle		Horizontal180°(±90°),vertical90°(10°)				
Mounting		Indoor / outdoor, wall / pole				
Weight		1500g				
HEATER (additional purchase)	Voltage	12V-24V DC/AC				
	Current	200mAmax				
	Highest Working Temperature	+60°C				

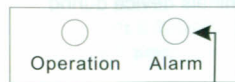
*Note: When environment temperature lower than -20, please use heater to ensure normal working. Heater is non-polarized.

13. Dimensions



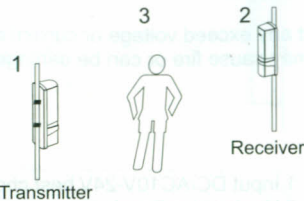
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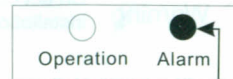


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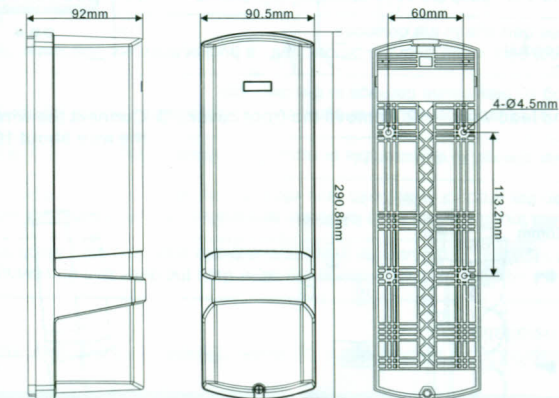
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No beams blocked, LED is on, alarm triggered.	<ol style="list-style-type: none"> 1.Beams are not properly aligned. 2.The transmitter does not work. 3.There are objects that may block the beams. 4. Front cover is dirty or with ice or snow. 5. Frequencies setting are not correct. 	<ol style="list-style-type: none"> 1.Realign the beams. 2.Check if any block between transmitter and receiver. 3.Ensure the same frequencies of transmitter and receiver. 4.Clean the front cover 5.Check the power supply, current and wires of transmitter.
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