NEW GENERATION 4-CHANNEL SELECTABLE FREQUENCIES

ABT-30/60/80/100/150M

DUAL-BEAM PHOTOELECTRIC DETECTOR

Highly Reliable Photoelectric Detector

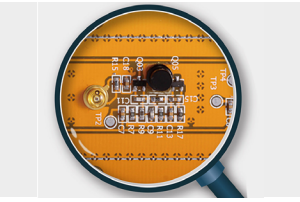
ABT series dual-beam photoelectric detector with "4-channel selectable frequencies" avoid unwanted crosstalk that can occur when using multiple photobeam over long distances or for beam stacking applications.

☐ Anti-white light lens design

Strong sun-light will impact performance of photoelectric detector, since it can interfer IR reception. Beside using anti-UV plastic cover, photoelectric receiver adopts dual lens with anti-white light coat to effectively filter white light, which in turn, provide you 99% reliable detection.

☐ Extremely durable Infrared sources

Utilizing high power military grade Infrared emitting diode to ensure transmission range and stability of sensor, it has much longer lifespan than conventional IR LEDs in market.



☐ Easy&fast installation with LED display

Offering easy and fast installation, because it has unique LED segment display can show signal level by using digital number, greatly help installers to align receiver and transmitter easily, 0-4 means weak, 5-6 low, 7-8 good, 9 best.

☐ High grade spherical lens

The high grade spherical lens creates more sharply defined & precise infrared beams compared to ordinary fresnel lenses.

☐ Easy angle adjustment

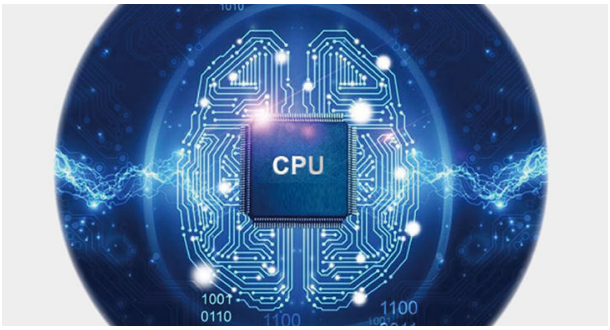
It allows the installer to finely adjust the beam easily.
[Horizontally ±90° with hand]
[Vertically ±5° with screwdriver]

☐ A.G.C. (Automatic Gain Control) Circuit

A.G.C. circuit continually monitors for gradual changes in the signal's strength caused by changing weather conditions. It adjusts the sensitivity accordingly to maintain the proper signal level for the current environmental conditions

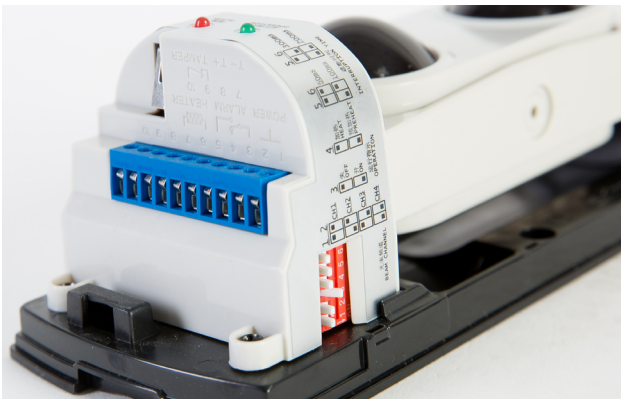
☐ Digital signal processing unit

The circuit design includes a digital processing unit (MCU) to process digital signal, it can provide higher accurate detection and reliability than conventional photoelectric detectors which usually adopt simple logic circuit design.



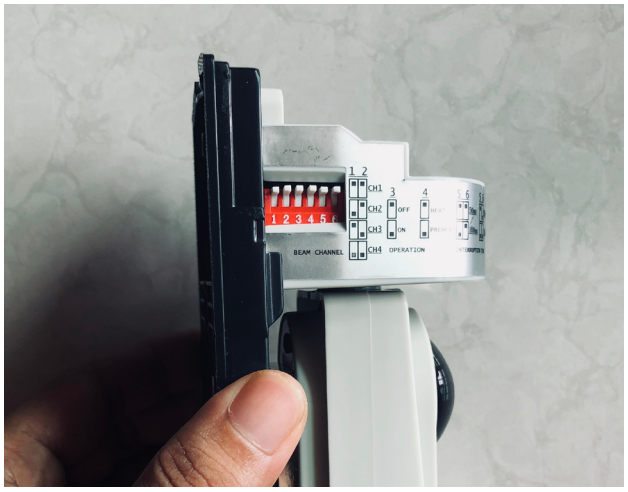
☐ Heater connection ready design

New generation ABT series photoelectric beam added support of smart heating control, users can easily connect a heater to detector, by using heater the detector can effectively de-frost and enable it work under extreme cold weather conditions.



☐ 4CH selectable frequencies

ABT series photoelectric detector adopts industry-leading selectable frequencies technology, has completely solved crosstalk interference under stacking or long distance other sophisitcated installation conditions.



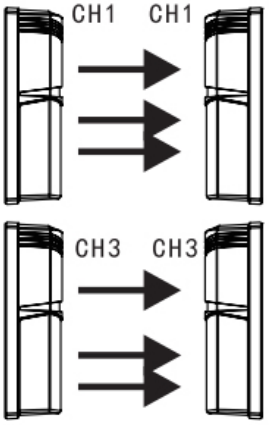
PHOTOELECTRIC BEAM DETECTOR

MOST RELIABLE OUTDOOR PERIMETER PROTECTION

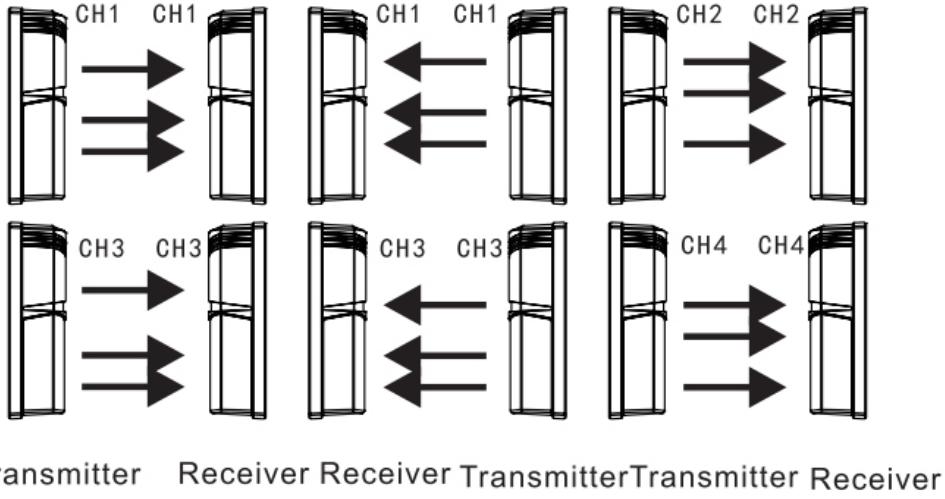
EXAMPLE INSTALLATION

The selectable frequency can avoid crosstalk for long distance or stacking use.
Make sure the transmitter and receiver with the same frequency, although there are 4 channel frequency can be chose, please set frequency two channels apart for stacking applications.

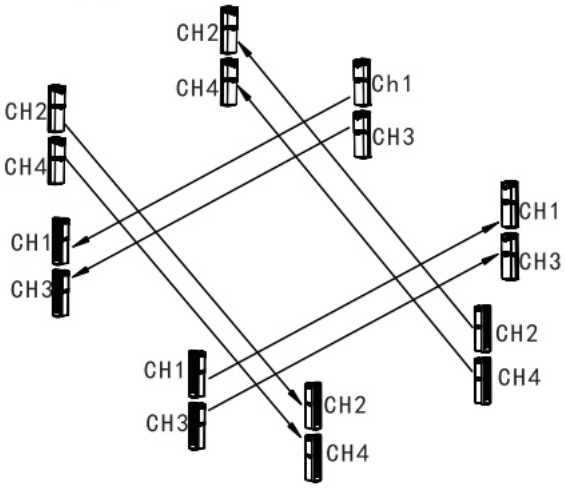
(1)2 units stacking



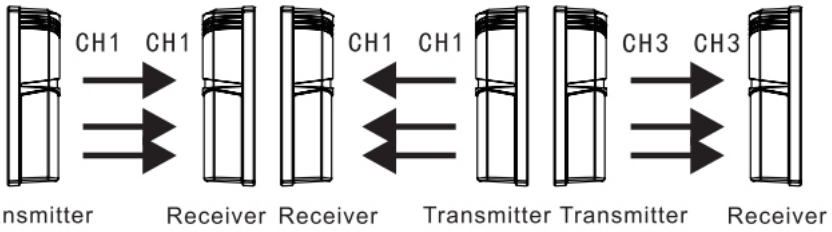
(2)6 units long distance stacking



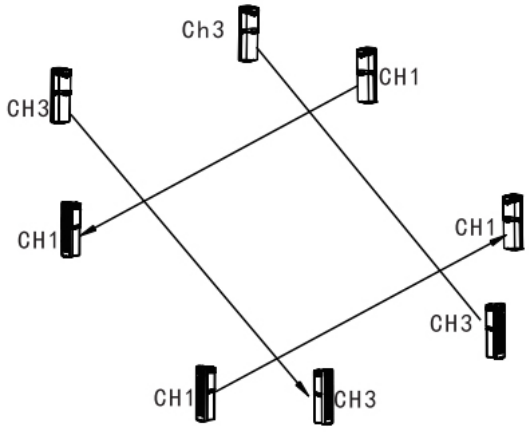
(3)Perimeter installation1



(4) 3 units long distance



(5)Perimeter installation 2



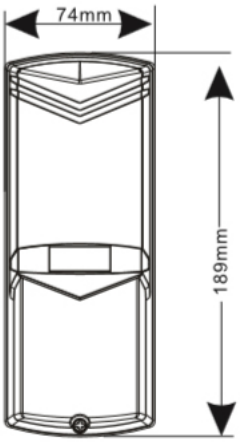
TECHNICAL PARMATER

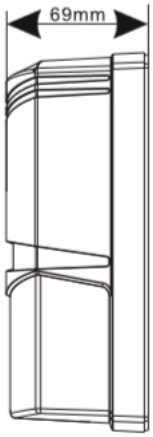
Model	ABT-30M	ABT-60M	ABT-80M	ABT-100M	N/A
Number of Beams	Dual (2)				
Detection Range	outdoor: 30m indoor: 60m	outdoor: 60m indoor: 120m	outdoor: 80m indoor: 160m	outdoor: 100m indoor: 200m	outdoor: 150m indoor: 300m
Beam Angle	1.2m	1.6m	1.6m	2.0m	2.4m
Light Sources	Digital Filter Type				
Frequency channel	4-channel selectable frequencies				
Sensor Speed	Variable between 50, 100, 250, 500 msec (4 steps)				
Alarm Output	Relay Output Contact Rating: AC DC 30V 0.5A Max				
Current Sinking	40mA Max				
Using Temperature	-25 Celsius degree - 60 Celsius degree				
Dismantle Prevention Output	Relay Output Contact Rating: AC DC 30V 0.5A Max				
Adjusting Angle of Optical Axis (Horizontal)	180°±90°				
Adjusting Angle of Optical Axis (Vertical)	24°±10°				
Hairline Pointer	Window Type				
Connection	M3 Connection Assistance Spiral Terminal				
Dedew and Defrost method	Built-in heating controlling design				
Other Function	Induction Testing Output Terminal				
Warranty	12 months factory warranty				
Material	PC engineering plastic/Resin				
Weight	900g				

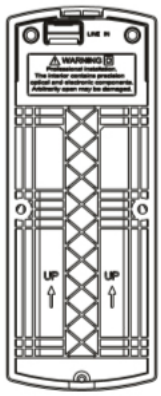
OPTIONAL ACCESSORIES

Stainless Steel Pole
Length: 30cm / 50cm; Type: L / I shape

PRODUCT DIMENSION







Heater
Voltage: 12V - 24V DC
Current: 350mA max
Temperature: 60 celsius degree
Dimension: PA2.5*10mm