

NEW GENERATION 4-CHANNEL SELECTABLE FREQUENCIES

# BEAM - 250

## QUADRUPLE-BEAM PHOTOELECTRIC DETECTOR



### **Highly Reliable Photoelectric Detector**

ABH series quadruple-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.

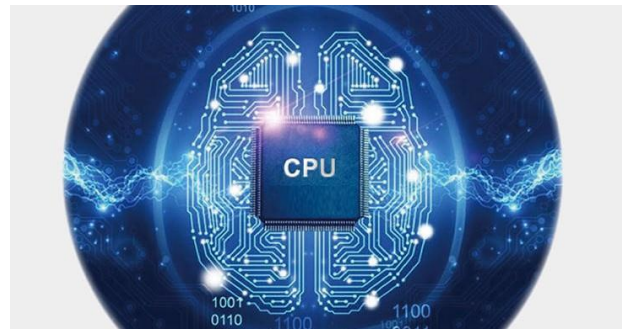
### □ Anti-white light lens design

Strong sun-light will impact performance of photoelectric detector, since it can interfere 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.



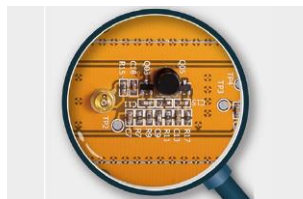
### □ Digital signal processing unit

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.



### □ 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.



### □ 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.



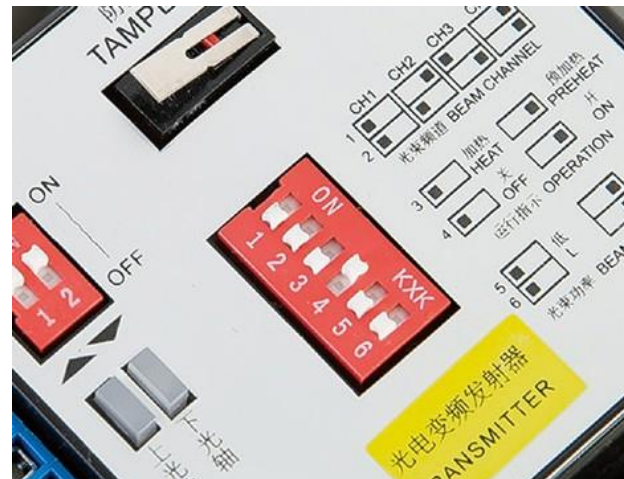
### □ Easy&fast installation with LED display

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.



### □ 4CH selectable frequencies

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



### □ 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  $\pm 90^\circ$  with hand ]  
[ Vertically  $\pm 5^\circ$  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

**PHOTOELECTRIC BEAM DETECTOR**  
**MOST RELIABLE OUTDOOR PERIMETER PROTECTION**

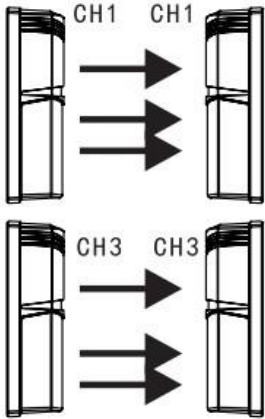


## EXAMPLE INSTALLATION

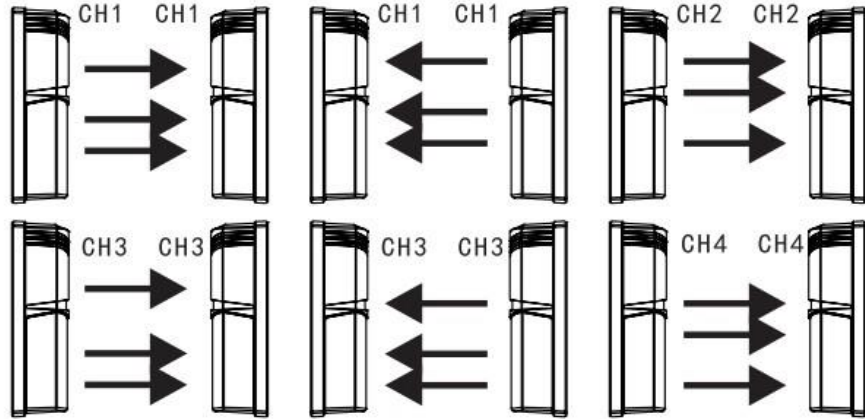
The selectable frequency can avoid crosstalk for long distance or stacking use.

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

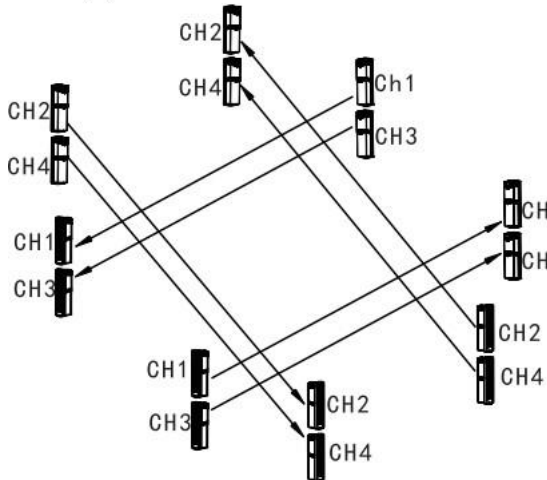


(2) 6 units long distance stacking

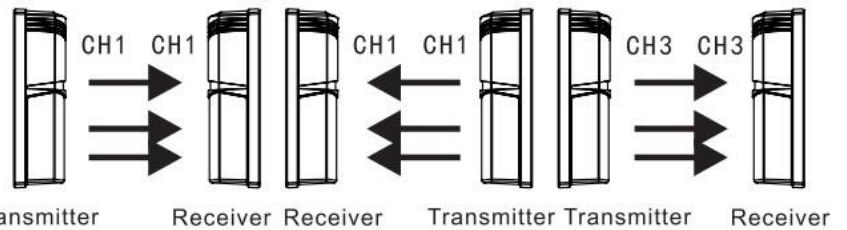


Transmitter Receiver Transmitter Receiver Receiver Transmitter Transmitter Receiver

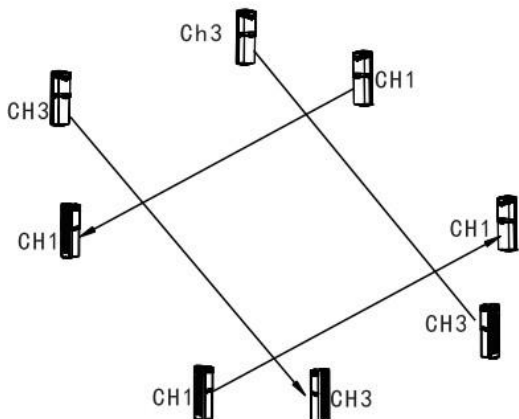
(3) Perimeter installation 1



(4) 3 units long distance



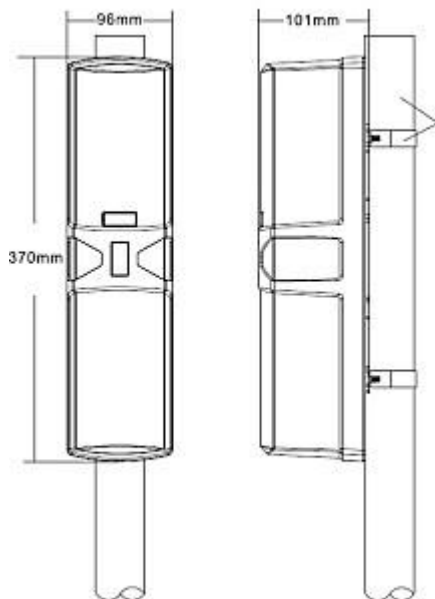
(5) Perimeter installation 2



## TECHNICAL PARAMETER

Model	BEAM-250
Number of Beams	Quadruple (4)
Detection Range	outdoor: 250m indoor: 500m
Beam Angle	4.4m
Light Sources	Digital Filter Type
Frequency channel	4-channel selectable frequencies
Detecting method	Triple infrared beams are interrupted simultaneously
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	90mA 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	2500g

## PRODUCT DIMENSION



### **Heater**

Voltage: 12V - 24V DC

Current: 350mA max

Temperature: 60 celsius degree