



ACTIVE INFRARED BEAM DETECTORS

Reliable, mature, high-end detectors for various perimeter security applications

Active Infrared beam detectors also are referred as photoelectric beams, they rely on active infrared detection technology to form an invisible fence around your perimeter to protect your premises. Unlike the Passive Infrared (PIR) technology, the active infrared beams can guard 20-300 meters long distance, meanwhile the detection accuracy is high. As they usually adopt weatherproof design, the IR beam detectors can be suitable for both indoor and outdoor installation. These Infrared beam detectors come with N.O and N.C alarm output, can be integrated with not only intrusion alarm systems, but also other security systems such as electrical fence, access control, CCTV system, IP video surveillance system, home automation system and more.

How it works?

An Infrared beam detector consists of an IR receiver and IR transmitter. The IR transmitter has IR LEDs to emit the Infrared light, while the IR receiver will receive the Infrared light. In order to achieve the long distance transmission, both the receiver and transmitter are equipped with lens which helps light focus. Once Infrared lights/beams are interrupted by an object, the detector will set alarm off instantly.

Usually, outdoor beam detectors adopt multi-beam structure to avoid false alarms.



www.unifore.net

OUTDOOR PERIMETER BEAM DETECTORS



DUAL INFRARED BEAM



TRIPLE INFRARED BEAM



VST-20/50/100/150
2 Photoelectric Infrared Beams



VSE-50/100/150/250
3 Photoelectric Infrared Beams



QUAD INFRARED BEAM



OPTIONAL ACCESSORIES



VSH-50/100/150/200/250
4 Photoelectric Infrared Beams



VST-30L/50L/30I/50I
Stainless Poles

Key Features

- Adopting multiple beams technology minimize the false alarm
- Built-in optical viewfinder for easy installation
- Adjustable response time for various applications
- Only trigger alarm when all beams are simultaneously interrupted
- Surge/lightning arrester circuit design
- Tamper protection design
- PC engineering plastic material
- Photoc instruction, OK intrusion, test terminal, multilevel LED indicator
- Including main unit mounting bracket set
- Anti-rain design for outdoor installation

Technical Specification

Model	VST/ABT	VSE/ABE	VSH/ABH
Number of Beams	Dual (2)	Triple (3)	Quadruple (4)
Detection Range	20-150 meters	50-250 meters	50-300 meters
Light Sources	Digital Filter Type		
Sensor Speed	35-700ms adjustable		
Alarm Output	Relay Output Contact Rating: AC DC 30V 0.5A Max		
Current Sinking	40mA Max	75mA Max	100mA Max
Using Temperature	-25 Celsius degree - 55 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 heater (made to order)		
Other Function	Induction Testing Output Terminal		
Warranty	12 months factory warranty		
Material	PC engineering plastic/Resin		
Weight	0.8KG	2.5KG	3KG



ACTIVE INFRARED FENCE DETECTOR

2/4/6/8/10
MULTIPLE BEAMS



Active Infrared Fence Detectors are ideal security detectors to guard all the entry-points of your premises. The normal installation places including windows, doors/gates, balcony, aisle and so on. Unlike the electric fence, the Active Infrared fence detectors utilize invisible Infrared barriers to detect the intrusion. It has long detection/guarding range, low-cost, high-quality, and installation-friendly features. Unifore's IR fence detectors adopt 4-channel frequency design to avoid IR interference between different beams, this can greatly reduce the false alarm rate to offer you accurate motion detection.



www.unifore.net

ACTIVE INFRARED FENCE DETECTORS



Key Features

- 2, 4, 6, 8, 10 infrared beams selectable, vertical coaxial adjustment on each unit.
- Can adjust the angle (up to 180 degree) of transmitter and receiver optionally.
- Perfect function in anti-cutting & short circuit, and tamper & pets immunity.
- A spherical optical lens, stability and anti-false alarm have been strengthened greatly.
- Weatherproof & dustproof for outdoor usage
- Anti-strong light up to 50000 LUX, totally resistance to external interference.
- Easy installation, relay dry contact output and bus system compatible (MA BUS mode).
- Adopts displacing diode, solved the problem of interference between near frequencies.
- Wire system and bus system compatible, holographic spot real-time report.

Technical Specification

Model	VS-R02	VS-R04	VS-R06	VS-R08	VS-R10
Number of Beams	2	4	6	8	10
Detection Range	5-40 meters				
Light Sources	Digital Filter Type				
Sensor Speed	10-500ms				
Alarm Output	NC&NO contact rating AV/DC 30V/0.5A				
Current Sinking	60mA Max	80mA Max	80mA Max	80mA Max	100mA Max
Using Temperature	-25 Celsius degree - 55 Celsius degree				
Dismantle Prevention Output	Relay Output Contact Rating: AC DC 30V 0.5A Max				
Adjusting Angle of Optical Axis	180° (vertical not adjustable)				
Other function	LED Indicators, Buzzer				
Hairline Pointer	Window Type				
Connection	M3 Connection Assistenace, Spiral Terminal				
Dedew and Defrost method	Built-in heater (made to order)				
Power Supply	DC12V-18V				
Warranty	12 months factory warranty				
Material	Aluminum				
Length	43cm	63cm	116cm	173cm	215cm



www.unifore.net