

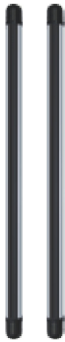
# Boundary Detectors

## BOUNDARY DETECTORS

### Model No.: BD-204D/B

#### Specification

- Humanism design can revolve the angle of transmitter and receiver optionally
- Perfect function in anti-cutting & short circuit, and tamper & pets immunity.
- Aspherical optical lens, stability and anti-wrong alarm have been strengthened greatly
- Remarkable design by original American C&K engineers, unique circuit and structure, adjustment can be performed without opening the cover
- Adopts CPU Micro Processor Digital Intelligent Control technology, excellent function
- Advanced anti-crawling function, even if man crawling, system won't miss alarm
- 4, 8 or 12 beams selectable, vertical coaxial adjustment on each unit, fast, easy and accurate.
- All-weather outdoor usage, totally air-proof design
- Anti strong light up to 50000 LUX, totally resistance to external interference
- Easy installation, wire and bus system compatible (MA bus mode)
- Adopts displacing diode, which has solved the problem of interference between near frequencies
- Adopts forever perpetual rare-earth magnetic nail, convenient installation



Model	ABX-204/B	ABX-208/B	ABX-212B
Alert (outdoor)	20m	20m	20m
Alert (indoor)	60m	60m	60m
Number of beams	4	8	12
Optical source	Infrared digital pulse beam		
Response time	50- 700ms		
AI-output (relay)	NC&NO; contact rating AV/DC 30V/0.5mA		
AI-output (bus)	MA Bus invariableness current carrier wave		
Power supply	DC 13.8- 24V; AC 11- 18V		
Power current	8mA	12mA	15mA
temperature	-25°C- 65°C		
humidity	5%- 95% (RH)		
visibility	≥5m		
Tamper output	NC; contact rating AV/DC 24V/0.5mA		
Horizontal adj	+/-90degree		
Vertical adj	+/-2degree		
material	PC		
Remark	It's dual-tech IR detector with the postfix of "D" while it's bus output with "B"		

### Model No.: BD-50D/B

#### Specification

- Wire system and bus system compatible, holographic spot real-time report
- Remarkable design by original American C&K engineers, unique circuit and structure, adjustment can be performed without opening the cover
- Innovative 12 Beams Active Photoelectric & MW Complex Detector With Digital Frequency Conversion, real dual-tech beams detector
- Unique MW detection technology, with pre-alarm function when used together with caution light
- Four group of triad coaxial aspherical lens, stability and anti-wrong alarm ability have been strengthened greatly
- Optional heights makes it fit for various environments
- Programmable alarm modes, anti climbing, crawling and jumping
- 6 beams or 12 beams selectable, vertical coaxial adjustment on each unit, fast, easy and accurate.
- Imported Germany PC cover cooperating with tin alloy brackets, can be used in various severe environments normally
- Adopts displacing diode, which has solved the problem of interference between near frequencies



Model	BD-50D/B	BD-100D/B	BD-150D/B	BD-200D/B	BD-250D/B
Alert (outdoor)	60m	120m	180m	240m	300m
Alert (indoor)	180m	360m	540m	720m	900m
Number of beams	12				
Optical source	Infrared digital pulse beam				
Response time	50- 700ms				
AI-output (relay)	NC&NO; contact rating AV/DC 30V/0.5mA				
AI-output (bus)	MA Bus invariableness current carrier wave				
Power supply	DC 13.8- 24V; AC 11- 18V				
Power current	105mA	115mA	125mA	135mA	145mA
temperature	-25°C- 65°C				
humidity	5%- 95% (RH)				
visibility	≥5m				
Tamper output	NC; contact rating AV/DC 24V/0.5mA				
Horizontal adj	360°				
Vertical adj	±10°				
material	PC & tütania				
Remark	It's dual-tech IR detector with the postfix of "D" while it's bus output with "B"				

### Model No.: BD-50

#### Specification

- Wire system and bus system compatible, holographic spot real-time report
- Remarkable design by original American C&K engineers, unique circuit and structure, adjustment can be performed without opening the cover
- Innovative 12 Beams Active Photoelectric & MW Complex Detector With Digital Frequency Conversion, real dual-tech beams detector
- Unique MW detection technology, with pre-alarm function when used together with caution light
- Four group of triad coaxial aspherical lens, stability and anti-wrong alarm ability have been strengthened greatly
- Optional heights makes it fit for various environments
- Programmable alarm modes, anti climbing, crawling and jumping
- 6 beams or 12 beams selectable, vertical coaxial adjustment on each unit, fast, easy and accurate.
- Imported Germany PC cover cooperating with tin alloy brackets, can be used in various severe environments normally
- Adopts displacing diode, which has solved the problem of interference between near frequencies



Model	BD-50	BD-100	BD-150	BD-200	BD-250
Alert (outdoor)	60m	120m	180m	240m	300m
Alert (indoor)	180m	360m	540m	720m	900m
Number of beams	12				
Optical source	Infrared digital pulse beam				
Response time	50- 700ms				
AI-output (relay)	NC&NO; contact rating AV/DC 30V/0.5mA				
AI-output (bus)	MA Bus invariableness current carrier wave				
Power supply	DC 13.8- 24V; AC 11- 18V				
Power current	105mA	115mA	125mA	135mA	145mA
temperature	-25°C- 65°C				
humidity	5%- 95% (RH)				
visibility	≥5m				
Tamper output	NC; contact rating AV/DC 24V/0.5mA				
Horizontal adj	360°				
Vertical adj	±10°				
material	PC & tütania				
Remark	It's dual-tech IR detector with the postfix of "D" while it's bus output with "B"				

# Photoelectric Beam

## PHOTOELECTRIC BEAM

### Model No.: ABT-30/60/80/100

#### Specification

The AB's powerful pulsed - infrared photoelectric transmitter and highly sensitized receiver work together to provide dependable out-door / indoor detection. The Dual Beam design reduces the effects of inclement weather and virtually eliminates any false-alarms caused by small animals and blowing debris.

#### Features

- Indoor, Outdoor Use
- Dual Infrared Beams
- Form "C" Relay
- Mirror Optics
- Voltage 10.5 28V
- Easy Alignment



MODEL	ABT-30	ABT-60	ABT-80	ABT-100
Protection Distance	90 ft. Outdoor	190 ft. Outdoor	260 ft. Outdoor	320 ft. Outdoor
(Outdoor/Indoor)	180 ft. Indoor	380 ft. Indoor	520 ft. Indoor	640 ft. Indoor
Maximal Arrival Distance	360m	650m	800m	1100m
Infrared beam	2 Beams			
Detection System	Simultaneous cut-off of 2 Beams			
Light Source	Infrared LED			
Response Time	50-700m/sec.			
Alarm Signal	Form C" (SPDT) Relay Contacts Rating: 0.5A max. at 30VAC,			
Supply Voltage	DC 10.5 - 28V			
Current Consumption	40mA max.	55mA max.	65mA max.	65mA max.
Temperature Range	-25°F to +55°F			
Dimensions	171mm Height x 82mm Width x 77mm Deep			
Tamper Range	Form "B" (SPST) Relay Contacts			
Optical Axis Adjustable Angle[Horizontal]	180° (±90°)			
Optical Axis Adjustable Angle[Vertical]	20° (±10°)			
Collimator	Viewfinder with peep window			
Messure for Moisture/Frost	Sit Type Cover			
Other Additional Functions	Alignment LED and Monitor Jack			
Material	ABS Plastic			
Weight	300g (Transmitter and Receiver)			

### Model No.: TB-20/40/60/80

#### Specification

The detector will automatic adjust its sensitivity (AGC circuit) in the event of strong fog or severe weathers. Upper and lower optical lens adjust the machine design simultaneously, which makes the adjustment faster and more convenient and accurate. Modules design facilitates the addition or stack of the detector. Adjusting of upper & lower optical lens design makes tuning much faster, easier and more accurate.

#### Features

- With high anti-RFI / EMI capability
- 99% Beam blocking stability
- With rain-proof cover design



Model		TB-20	TB-40	TB-60	TB-80
Alert Distance	(Outdoor)	20 m	40 m	60 m	80 m
	(Indoor)	50 m	100 m	120 m	240 m
Maximum Arrival Distance		200 m	400 m	600 m	800 m
Number Of Beams		2 beams			
Detection Mode		2 beams blocked simultaneous			
Response Time		50 ~ 700m sec. variable			
Alarm Output		No voltage output contact: alarm-on/off Contact capacity : AC / DC 30V 0.3A max.			
Power Supply		DC10 ~ 26 V or 8 ~ 18 ACV non polarity			
Indicator Lamp	Transmitter	Green lighting			
	Receiver-Alarm Activated	Green lighting	Red lighting	Green lighting	Red lighting
Power Consumption	Transmitter	7 mA max. Activated	10 mA max. Activated	7 mA max. Activated	10 mA max. Activated
	Receiver	27 mA max. activated			
DC12V					
Range Of Operating Temperature		-25 °C ~ 55 °C			
Range of Operating Humidity		5%-95%RH (relevant humidity)			
Place of Operating		Outdoor Indoor			
Tamper Output		Contact relay: NC DC24 V 0.5A max.)			
Optical Axis Adjustment Angle		Horizontal: 180° (±90°); Vertical: 10° (±5°)			
Wiring		Terminals style			
Installation Way		Wall/ strut Installation			
Material		PC resin			

### Model No.: ABH-100/150/200/250

#### Specification

The AB's powerful pulsed - infrared photoelectric transmitter and highly sensitized receiver work together to provide dependable out-door / indoor detection. The 4 Beams design reduces the effects of inclement weather and virtually eliminates any false-alarms caused by small animals and blowing debris.

#### Features

- Indoor, Outdoor Use
- Quad Infrared Beams
- Form "C" Relay
- Mirror Optics
- Voltage 10.5 28V
- Easy Alignment



MODEL	ABH-100	ABH-150	ABH-200	ABH-250
Protection Distance	90 ft. Outdoor	190 ft. Outdoor	260 ft. Outdoor	320 ft. Outdoor
(Outdoor/Indoor)	180 ft. Indoor	380 ft. Indoor	520 ft. Indoor	640 ft. Indoor
Maximal Arrival Distance	1400m	2100m	2800m	3500m
Infrared beam	4 Beams			
Detection System	Simultaneous cut-off of 4 Beams			
Light Source	Infrared LED			
Response Time	35-700m/sec.			
Alarm Signal	Form C" (SPDT) Relay Contacts Rating: 0.5A max. at 30VAC,			
Supply Voltage	DC 13.8 - 28V			
Current Consumption	40mA max.	55mA max.	65mA max.	65mA max.
Temperature Range	-25°F to +55°F			
Dimensions	398mm Height x 103mm Width x 99mm Deep			
Tamper Range	Form "B" (SPST) Relay Contacts			
Optical Axis Adjustable Angle[Horizontal]	180° (±90°)			
Optical Axis Adjustable Angle[Vertical]	20° (±10°)			
Collimator	Viewfinder with peep window			
Messure for Moisture/Frost	Sit Type Cover			
Other Additional Functions	Alignment LED and Monitor Jack			
Material	ABS Plastic			
Weight	970g (Transmitter and Receiver)			