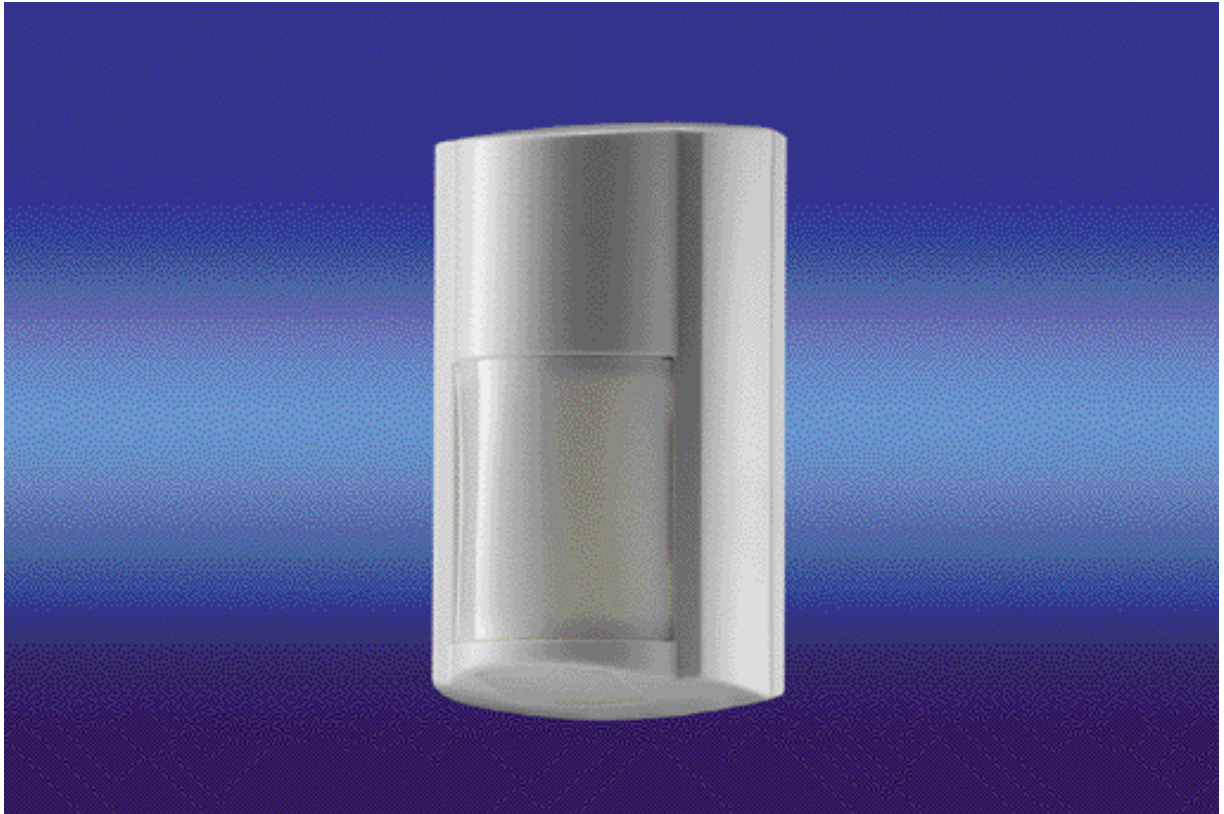




PASSIVE INFRARED DETECTOR **PA-4012(PET)**



Passive Infrared Detector for Security Professionals Worldwide

AUTO SENSITIVITY INHIBITION CONTROL

In temperature environment where the sensitivity of the sensor can be seriously inhibited, the level of sensitivity is automatically adjusted to ensure reliable security through all seasons.

ADVANCED PET IMMUNITY

Precise alignment with 92 zones to ensure 30 lbs (15kg) pet immunity.

COMPACT DESIGN

Slim shape with wide angle (84°, 15m)

PREMIUM QUALITY

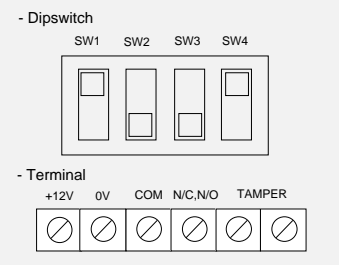
Signal processing by the original CPU and protection against radio frequency, power line noise and static electricity.

VARIOUS APPLICATIONS

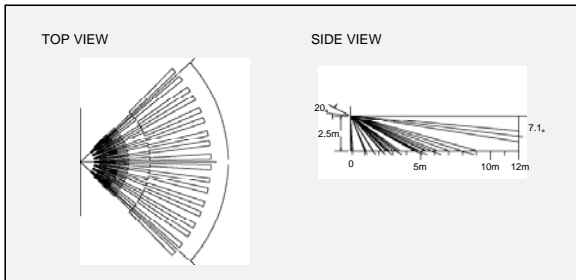
Adjustable dipswitch for dual optical sensor filtering system, anti-tamper switch, auto-reset memory, and photo-mos FET switch.

SELECTABLE ALARM CONTACT (N/C, N/O)

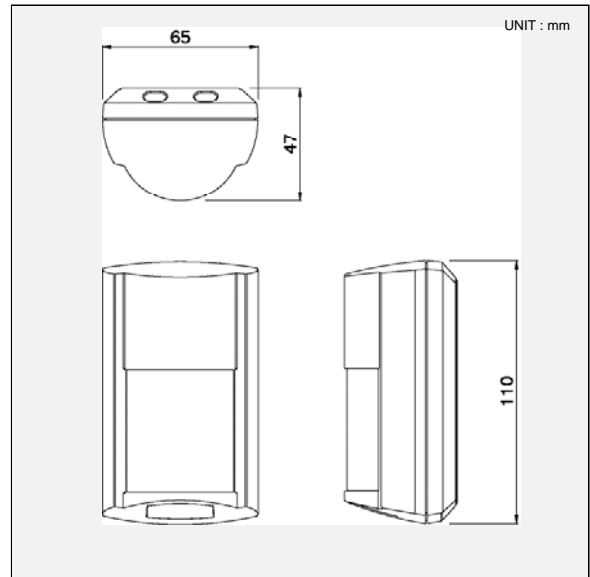
Wiring

	FUNCTION		Default
	On	Off	
DIPS/W 1	LED On	LED Off	On
DIPS/W 2	Count 4 times	Count 2 times	Off
DIPS/W 3	Blink(3min) and light(47min) when alarmed, Red LED when alarm is off	No alarm memory	Off
DIPS/W 4	Relay N/C Output	Relay N/O Output	On

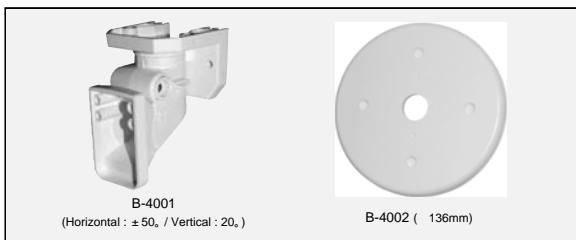
Protection Range



Dimensions



Bracket (Optional)



Specification

Model	PA-4012P
Detection Method	Passive Infrared Motion Detecting
Protection Range	Wide Angle (84.°), Standard 12m (Max 15m)
Protection Zone	46 Pairs (92 Zones)
Current	Stand by : 25 mA (Max) / Alarm : 10 mA (Max)
Supply Voltage	DC 8 ~ 18V (Polarity)
Alarm Output	Dry contact relay output (N/C, N/O), Delay time : 2 ± 0.5sec, Contact Capacity : AC/DC 30V 0.2A
Alarm LED (Green)	Blink when warm up / LED On when alarmed
Pet Immunity	Small animals under 30 lbs (15kg) are not detected
Temperature	-20 ~ +60
Adjustment	Bracket (Optional) : Horizontal : ± 50. / Vertical : 20.
Mounting Site	Indoor ceiling, Wall
Materials	Base : ABS resin, Lens : PE resin
Dimensions	W110 x H65 x D47 (mm)
Weight	68g

Caution : Specification is subject to change without prior notice for improvement.



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PASSIVE INFRARED DETECTOR **PA-0012P(PET)**



Passive Infrared Detector for Security Professionals Worldwide

AUTO SENSITIVITY INHIBITION CONTROL

In temperature environment where the sensitivity of the sensor can be seriously inhibited, the level of sensitivity is automatically adjusted to ensure reliable security through all seasons.

ADVANCED PET IMMUNITY

Precise alignment with 70 zones to ensure 30 lbs (15kg) pet immunity.

PREMIUM QUALITY

Signal processing by the original CPU and protection against radio frequency, power line noise and static electricity.

EASY INSTALLATION AND MAINTENANCE

Sensor unit can be removed from the base unit for easier wiring.

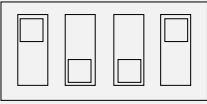
SELECTABLE ALARM CONTACT (N/C, N/O)

OPTIONAL TAMPER OUTPUT

Wiring

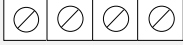
- DIP Switch

SW1 SW2 SW3 SW4



- Terminal

ALARM GND +12V

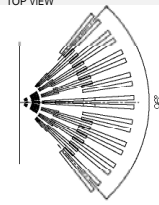


	FUNCTION		Default
	On	Off	
DIPS/W 1	LED On	LED Off	On
DIPS/W 2	Count 4 times	Count 2 times	Off
DIPS/W 3	Blink(3min) and light(47min) when alarmed, Red LED when alarm is off	No alarm memory	Off
DIPS/W 4	Relay N/C Output	Relay N/O Output	On

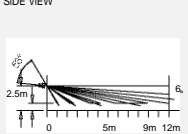
Protection Range

- Wide Angle detection

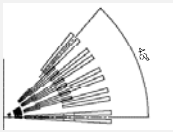
TOP VIEW



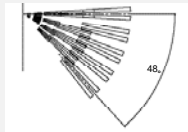
SIDE VIEW




- Left



- Right

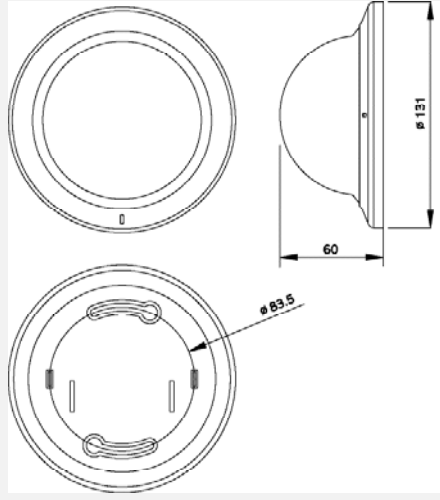


- Curtain detection



Dimensions

UNIT : mm



Specification

Model	PA-0012P
Detection Method	Passive Infrared Motion Detecting
Protection Range	Select Wide Angle/Curtain/Left/Right detection, Standard 12m (Max 15m)
Protection Zone	35 Pairs (70 Zones)
Current	Stand by : 25 mA (Max) / Alarm : 10 mA (Max)
Supply Voltage	DC 8 ~ 18V (Polarity)
Alarm Output	Dry contact relay output (N/C, N/O), Delay time : 2 ± 0.5sec, Contact Capacity : AC/DC 30V 0.2A
Alarm LED(Green)	Blinking at warming up / LED on at alarm
Pet Immunity	Small animals under 30 lbs (15kg) are not detected
Temperature	-20 ~ +60
Adjustment	Horizontal : 35. / Vertical : 20.
Mounting Site	Indoor ceiling
Materials	Cover, Base : ABS resin, Lens : PE resin
Dimensions	131 x 60 (mm)
Weight	105g

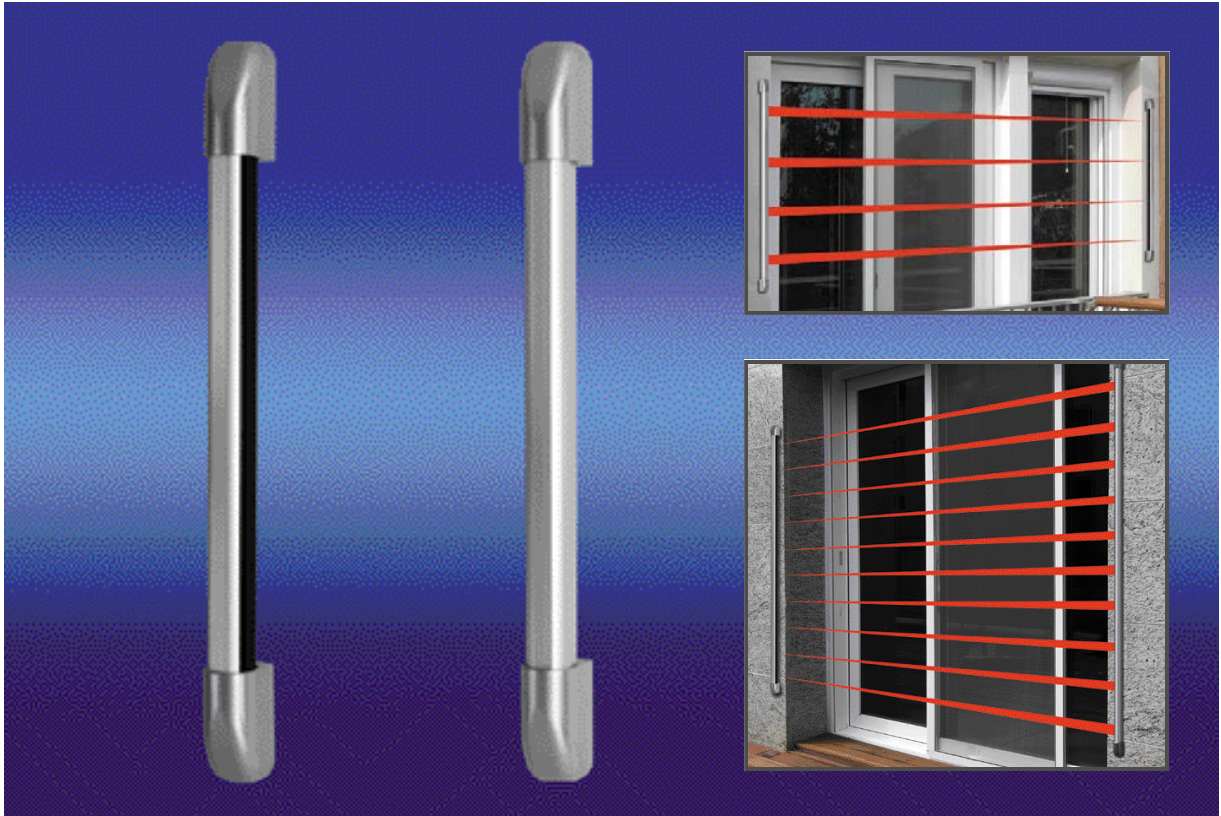
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PHOTOELECTRIC BEAM DETECTOR **MPB Series**



High-End Photoelectric Beam Detector with Advanced Technology

MULTI APPLICATIONS WITH 4~10 BEAMS MAX HEIGHT 2M

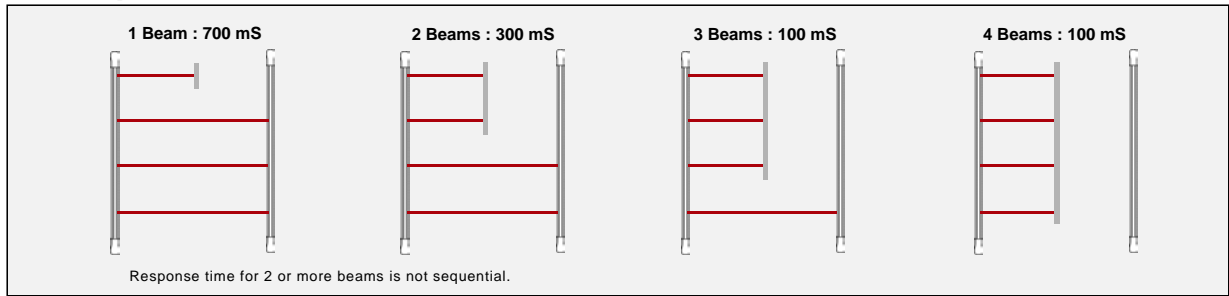
WATERPROOF CONSTRUCTION OF IP 55

COMPACT & SLIM TYPE 35MM

EASY INSTALLATION ON PORCH & WINDOW FRAME

AUTOMATIC RESPONSE TIME CONTROL

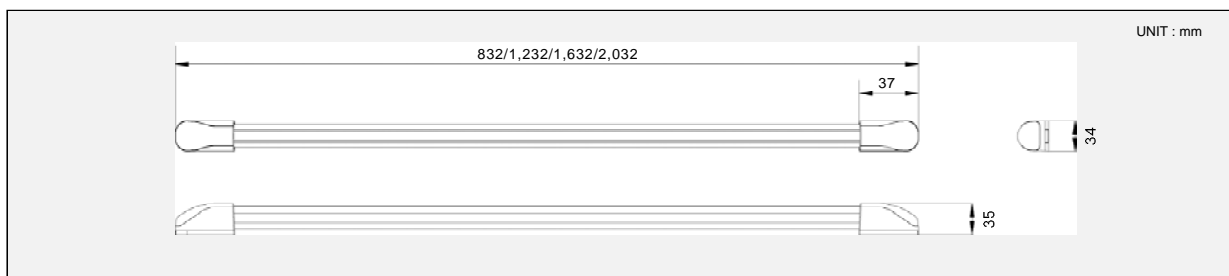
Response Time



Wiring

Receiver			Transmitter		
No	Color	Content	No	Color	Content
1	Red	+	5	Blue	COM
2	Black	-	6	Yellow	N/C
3	White	+	7	Brown	N/O
4	Green	-	8	Orange(Gray)	N/O

Dimensions



Specification

Model	MPB-30D4	MPB-30D6	MPB-30D8	MPB-30D10
Number of Beams	4	6	8	10
Infrared Beam	Double modulation pulsed beams by LED			
Protection Range	Outdoor, Indoor : 15m			
Supply Voltage	DC 9 ~ 16V (Polarity)			
Current	Max 100 mA	Max 120 mA	Max 140 mA	Max 160 mA
Response Time	100 msec ~ 700 msec (Auto)			
LED	Transmitter	Power On : Green LED On		
	Receiver	Sensitivity Good : Green LED Off / Re-adjustment : Green LED Blink / Alarm : Green LED On		
Alarm Output	Dry contact relay output 1C, Contact Action : Interruption & Delay time (2 ± 0.5sec), Contact Capacity : 30V (AC/DC) 1A or less			
Temperature	-20 ~ +60			
Beam Adjustment	Horizontal : 190, (± 95 °)			
Mounting Site	Outdoor, Indoor			
Materials	Aluminum, PC resin, ABS resin			
IP Rating	IP 55			
Dimensions (mm)	W832xH34xD35	W1,232xH34xD35	W1,632xH34xD35	W2,032xH34xD35
Weight	Tx : 380g, Rx : 410g	Tx : 560g, Rx : 620g	Tx : 740g, Rx : 830g	Tx : 920g, Rx : 1,040g

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PHOTOELECTRIC BEAM DETECTOR

PB-10S/30S/60S



Twin Photoelectric Beam Detector with Advanced Technology

ADVANCED WEATHER PROTECTION & DURABILITY

Nationally certified cover guarantees protection against frost, dew and fog with durability for 10 years.

PREMIUM QUALITY

False alarm is reduced by using two beams simultaneously.

EXTERNAL LIGHT PROTECTION

Globally certified cover filters the penetration of external light (sunlight, car head light, etc.) when the sensitivity of sensor can be seriously inhibited.

BEAM ALIGNMENT & SENSITIVITY CONTROL

Special viewfinder offers accurate beam alignment easily and built-in monitor jack can adjust sensitivity.

ADJUSTABLE WIDE ANGLE

Horizontal : $\pm 95^\circ$ / Vertical : $\pm 10^\circ$

EASY INSTALLATION AND MAINTENANCE

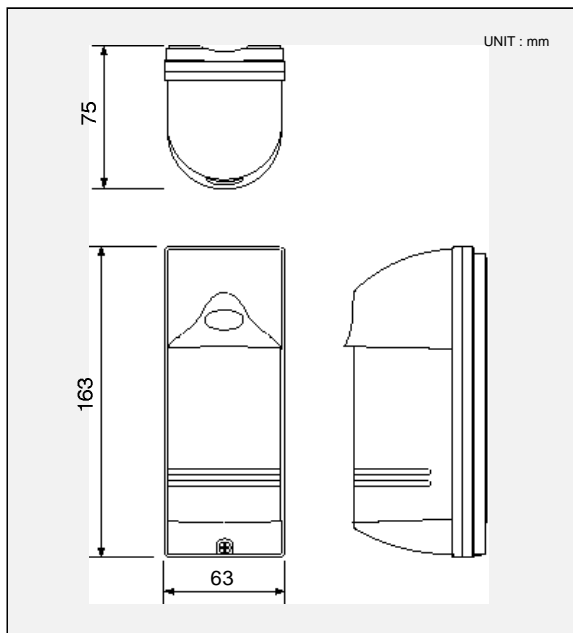
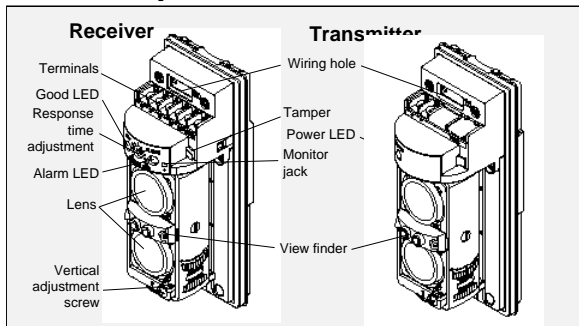
Wiring

Receiver		Transmitter		No	Terminal configuration	No	Terminal configuration				
								1	VCC : DC 10.8 ~ 25V	4	Normal Open
				2	GND	5	Common				
				3	Normal Close	6	Tamper				

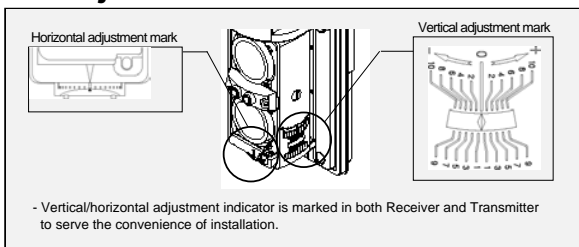
- 3 : N/C
- 4 : N/O
- 5 : COM
- 6 : Tamper

Description

Dimensions



Adjustment Mark



Specification

Model	PB-10S	PB-30S	PB-60S
Detection System	Simultaneously breaking twin beams		
Infrared Beam	Double modulation pulsed beams by LED		
Protection Range	Outdoor : 10m, Indoor : 30m	Outdoor : 30m, Indoor : 60m	Outdoor : 60m, Indoor : 120m
Supply Voltage	DC 10.8 ~ 25V (Non-Polarity)		
Current	Max 57 mA		
Response Time	50 msec ~ 700 msec		
LED	Transmitter	Green LED On : Power On	
	Receiver	Green LED On : Sensitivity Good / Red LED On : When alarm is set	
Alarm Output	Dry contact relay output 1C, Contact Action : Interruption & Delay time (1~3 sec), Contact Capacity : 30V (AC/DC) 0.5A or less		
Tamper Output	Dry contact relay output from N/C (Rx only) Contact Action : Activated when cover is detached		
Temperature	-20 ~ +60		
Beam Adjustment	Horizontal : 190, (± 95 °), Vertical : 20, (± 10 °)		
Mounting Site	Outdoor, Indoor		
Material	PC resin (Green)		
IP Rating	IP 44		
Dimensions	W63 x H163 x D75 (mm)		
Weight	Rx : 326g, Tx : 309g	Rx : 330g, Tx : 315g	
Optional	Pole Attachment (2pcs/set, pole size: ø 38~44mm), Transmitter Tamper Switch, IP 54		

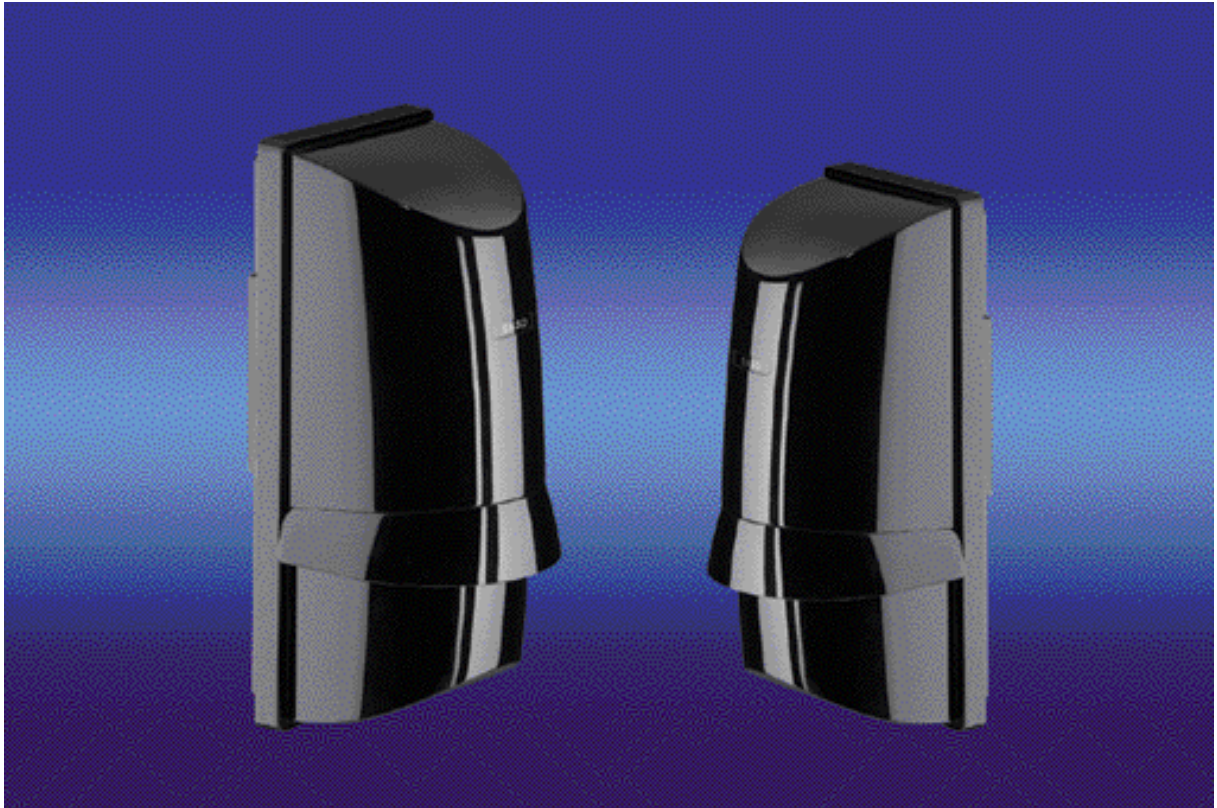
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PHOTOELECTRIC BEAM DETECTOR **PB-30SA/60SA/80SA/100SA**



Analog Twin Photoelectric Beam Detector with Advanced Technology

ADVANCED WEATHER PROTECTION & DURABILITY

Nationally certified cover guarantees protection against frost, dew and fog with durability for 10 years.

INSECT PROTECTION

Sealed optical system (IP 55) offers immunity against insect.

PREMIUM QUALITY

False alarm is reduced by using two beams simultaneously.

EXTERNAL LIGHT PROTECTION

Globally certified cover filters the penetration of external light (sunlight, car head light, etc.) when the sensitivity of sensor can be seriously inhibited.

BEAM ALIGNMENT AND SENSITIVITY CONTROL

Special viewfinder offers accurate beam alignment easily and built-in monitor jack can adjust sensitivity.

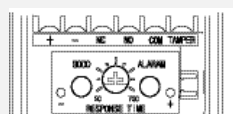
ADJUSTABLE WIDE ANGLE

Horizontal : $\pm 95^\circ$ / Vertical : $\pm 10^\circ$

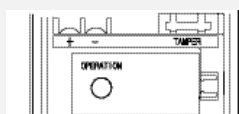
EASY INSTALLATION AND MAINTENANCE

Wiring

Receiver

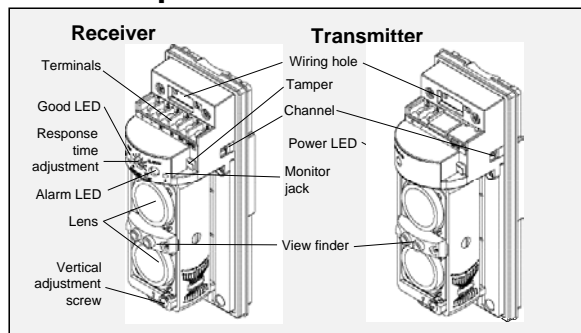


Transmitter

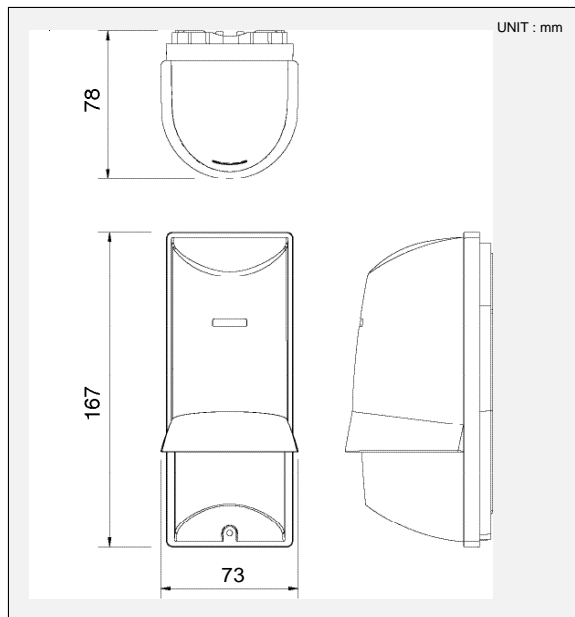


No	Terminal configuration	No	Terminal configuration
1	VCC : DC 10.8 ~ 25V	4	Normal Open
2	GND	5	Common
3	Normal Close	6	Tamper

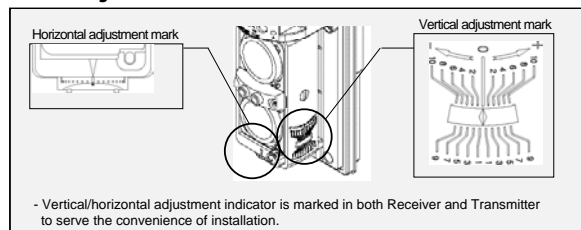
Description



Dimensions



Adjustment Mark



Specification

Model	PB-30SA	PB-60SA	PB-80SA	PB-100SA
Protection Range	30m	60m	80m	100m
Current	Max 46 mA	Max 61 mA	Max 80 mA	Max 88 mA
Detection System	Simultaneously breaking twin beams			
Infrared Beam	Double modulation pulsed beams by LED			
Supply Voltage	DC 10.8 ~ 25V (Non-Polarity)			
Response Time	50 msec ~ 700 msec			
LED	Transmitter	Green LED On : Power On		
	Receiver	Green LED On : Sensitivity Good / Red LED On : When alarm is set		
Alarm Output	Dry contact relay output 1C, Contact Action : Interruption & Delay time (2 ± 0.5sec), Contact Capacity : 30V (AC/DC) 1A or less			
Tamper Output	Dry contact relay output N/C (Rx only), Contact Action : Activated when cover is detached, Contact Capacity : 30V (AC/DC) 01A or less			
Temperature	-25 ~ +70			
Beam Adjustment	Horizontal : 190. (± 95 °), Vertical : 20. (± 10 °)			
Mounting Site	Outdoor, Indoor			
Material	PC resin			
IP Rating	IP 55			
Dimensions	W73 x H167 x D78 (mm)			
Weight	Rx : 338g, Tx : 324g			
Optional	Pole Attachment (2pcs/set, pole size: ø 38~44mm), Transmitter Tamper Switch			

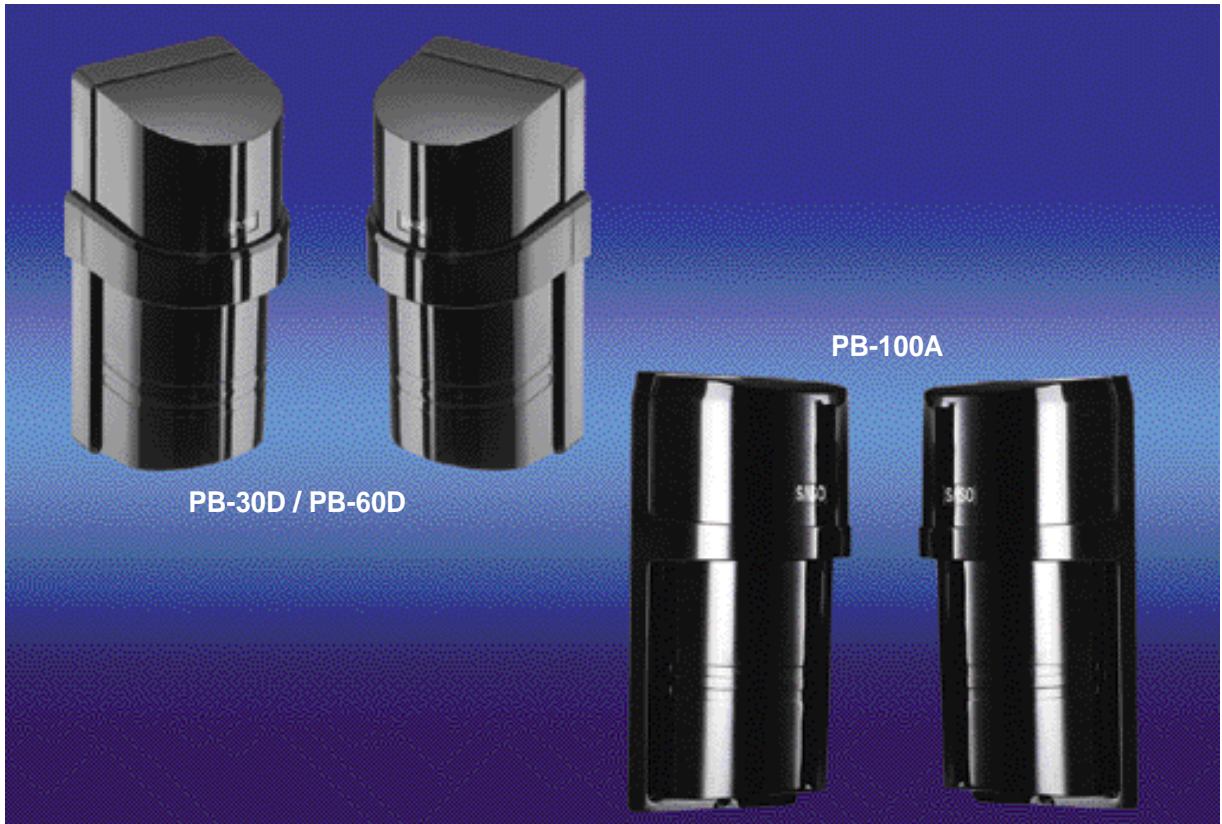
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PHOTOELECTRIC BEAM DETECTOR **PB-30D/60D/100A**



Digital Twin Photoelectric Beam Detector with Advanced Technology

ADVANCED WEATHER PROTECTION & DURABILITY

Nationally certified cover guarantees protection against frost, dew and fog with durability for 10 years.

SELECTABLE 4-CHANNEL BEAM FREQUENCY

PREMIUM QUALITY

False alarm is reduced by using two beams simultaneously.

EXTERNAL LIGHT PROTECTION

Globally certified cover filters the penetration of external light (sunlight, car head light, etc.) when the sensitivity of sensor can be seriously inhibited.

BEAM ALIGNMENT AND SENSITIVITY CONTROL

Special viewfinder offers accurate beam alignment easily and built-in monitor jack can adjust sensitivity.

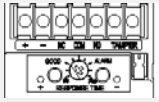
EASY INSTALLATION AND MAINTENANCE

PROGRAMMED AGC FUNCTION LED DISPLAY

(PB-100A Only)

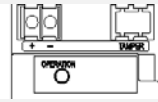
Wiring

PB-30D/60D
Receiver



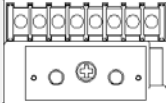
No	Terminal configuration	No	Terminal configuration
1	VCC : DC 10.8 ~ 25V	5	Normal Open
2	GND	6	Tamper
3	Normal Close	7	Tamper
4	Common		

Transmitter



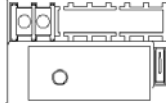
No	Terminal configuration	No	Terminal configuration
5	Normal Open	6	Tamper
7	Tamper		

PB-100A
Receiver



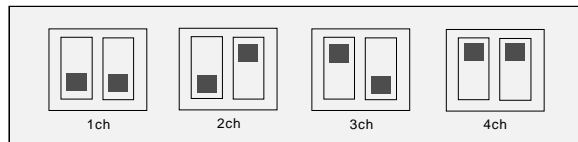
No	Terminal configuration	No	Terminal configuration
1	VCC : DC 10.8 ~ 25V	5	Normal Open
2	GND	6	Tamper
3	Normal Close	7	Tamper
4	Common	8	Spare

Transmitter



No	Terminal configuration	No	Terminal configuration
5	Normal Open	6	Tamper
7	Tamper	8	Spare

Channel Setting



Dimensions

UNIT : mm

PB-30D/60D

PB-100A

Specification

Model	PB-30D	PB-60D	PB-100A
Detection System	Simultaneously breaking twin beams		
Infrared Beam	Double modulation pulsed beams by LED		
Protection Range	30m	60m	100m
Channel	4 Channels		
Supply Voltage	DC 10.8 ~ 25V (Non-Polarity)		
Current	Max 72 mA		Max 89 mA
Response Time	50 msec ~ 700 msec		
LED	Transmitter	Green LED On : Power On	
	Receiver	Green LED On : Sensitivity Good / Red LED On : When alarm is set	
Alarm Output	Dry contact relay output 1C, Contact Action : Interruption & Delay time (2 ± 0.5 sec), Contact Capacity : 30V (AC/DC) 0.5A or less		
Tamper Output	Dry contact relay output N/C (Rx only), Contact Action : Activated when cover is detached		
Temperature	-20 ~ +60		
Beam Adjustment	Horizontal : ± 95 ° ; Vertical : ± 10 °		Horizontal: ± 90 ° ; Vertical: ± 10 °
Mounting Site	Outdoor, Indoor		
Material	PC resin (Green)		
IP Rating	IP 44		
Dimensions	W73 x H177 x D84 (mm)		W78 x H196 x D82 (mm)
Weight	Rx : 382g, Tx : 364g		Rx : 348g, Tx : 335g
Optional	Pole Attachment (2pcs/set, pole size: ø 38~44mm), Transmitter Tamper Switch, IP 54		

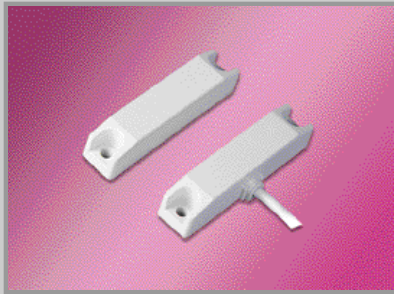
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Magnetic Contacts

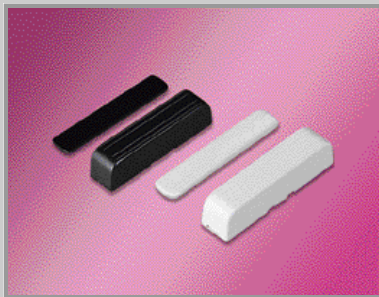


High Quality, Anti-Vibration, Anti-Shock

Model No.	DS-30A	DS-25C
Detection Range	30 mm ~ 65 mm	22 mm ~ 55 mm
Contact Type	SPST (A)	SPST (C)
Contact Rating	150V (DC/AC), 0.5A	30V (DC/AC), 0.2A
Material	Cover : ABS resin, Magnet : Ferrite	
Color	Light Gray	
Temperature	-20 ~ +60	
Mounting Site	Inside of door, Window	
Dimensions	W65 x H14 x D14 (mm)	

Caution : Specification is subject to change without prior notice for improvement.

Magnetic Contacts



High Quality, Anti-Vibration, Anti-Shock

Model No.	MS-6
Detection Range	35 mm ~ 100 mm
Contact Type	SPST
Contact Rating	200VDC, 0.5A
Material	Cover : ABS resin, Magnet : Nd
Color	Light Gray / Black
Temperature	-20 ~ +60
Mounting Site	Inside of door, Window
Dimensions	W52 x H12 x D12 (mm)

Caution : Specification is subject to change without prior notice for improvement.

Shock Detector



High Quality, Digital Filtering, Tamper & Reset Function

Model No.	SH-10
Supply Voltage	DC 9.6 ~15V (Non-polarity)
Current	33 mA
Temperature	-20 ~ +60
Output Relay	Dry contact 1C, 30V (AC/DC), 0.5A
Detection Range	4m in radius (Under 9.8N of shock)
Material	ABS resin
Dimensions	W 62 x H89 x D28 (mm)
Weight	90g

Caution : Specification is subject to change without prior notice for improvement.

Glass Break Detector

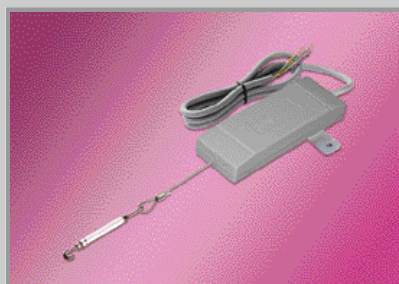


Easy Installation, Applicable to All Kinds of Glass

Model No.	GS-20A
Type	Resistance change method detecting : More than 4M
Power Supply	No power / No polarity
Detection Range	Within 2m in radius / 1/4 thickness
Mounting Method	Silicon, Double side tape
Material	ABS resin
Temperature	-20 ~ +60
Dimensions	ø 30 x 9 (mm)
Weight	15g
Wiring	UL1007 Type AWG28

Caution : Specification is subject to change without prior notice for improvement.

Trap Tension Detector



Suitable for All Environmental Condition

Model No.	TT-20
Detection Type	Trap detecting with Micro switch
Material	Case : PC resin, Bracket : Stainless
Alarm Output	N/O, N/C
Contact Capacity	125V AC, 5A
Detection Range	Max 20m
Sensing Load	3.6kg·f
Temperature	-25 ~ +70 / 85%RH
Dimensions	W111 x H41 x D34 (mm)
Application	Fence, Roof
Optional	Stainless rope

Caution : Specification is subject to change without prior notice for improvement.

Emergency Switch

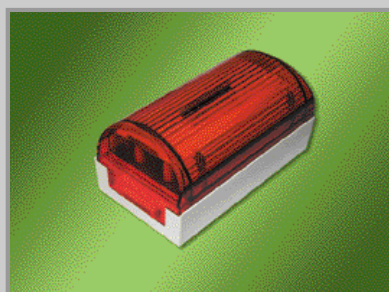


Easy to Install and Attach, Selectable Momentary or Latch

Model No.	ES-001
Push Type	Latch or Momentary
Temperature	-20 ~ +60
Humidity	10% ~ 90%
Alarm Output	SPDT type
Material	ABS resin
Dimensions	ø 70 x 27 (mm)
Weight	44g

Caution : Specification is subject to change without prior notice for improvement.

Strobe Warning Light



Applied Xenon Lamp, Power Saving Circuit & Light-Weighted

Model No.	HD-15
Number of Blink	60 ± 10 blink/min
Voltage	DC 10 ~ 14V
Current	Less than 120 mA
Temperature	-20 ~ 60
Material	Cover : Acrylic resin, Body : ABS resin
Color	Blue / Red
Dimensions	W139 x H75 x D72 (mm)
Weight	256g

Caution : Specification is subject to change without prior notice for improvement.



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