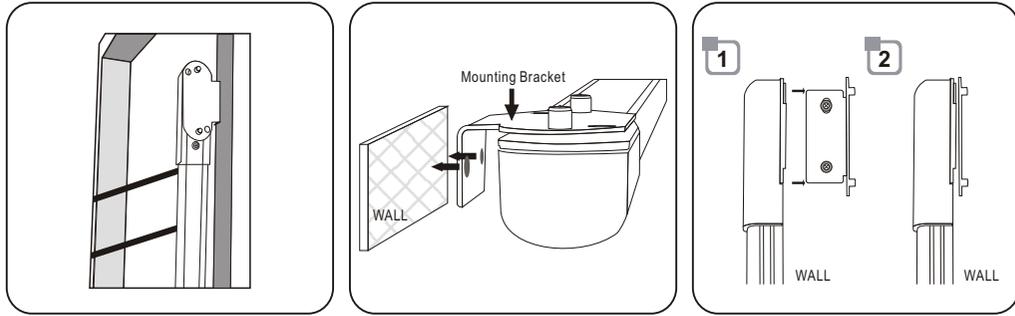
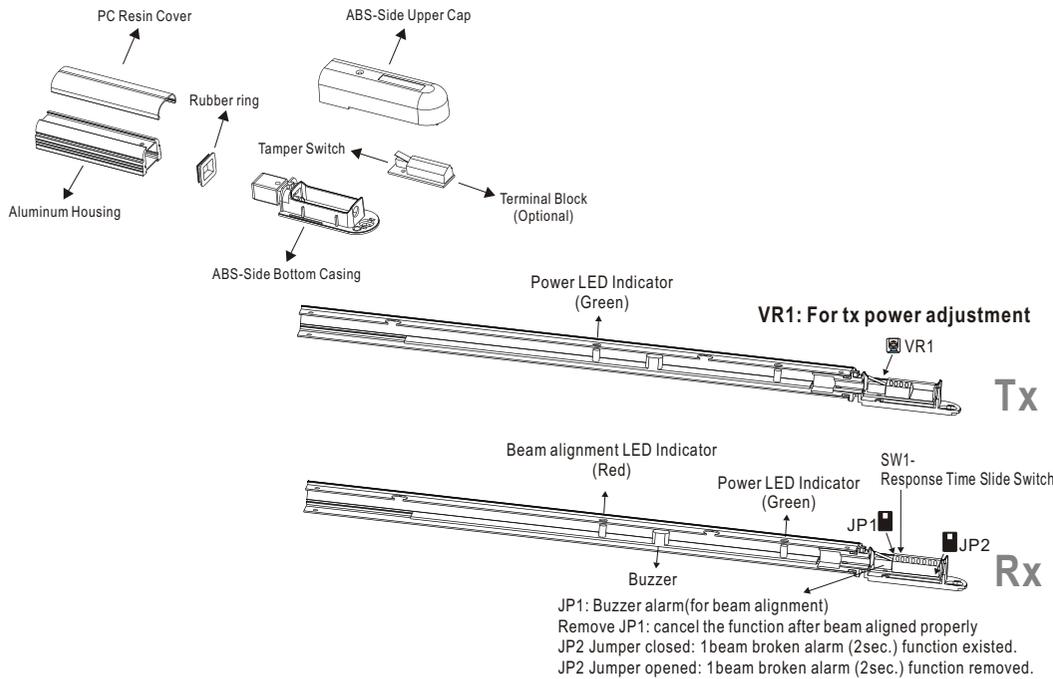


Manual of Barrier (Curtain) Sensor

Standard Installation:



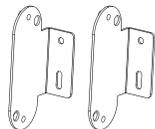
Internal View:



Sensing range V.S. Sunlight

Sunlight(Lux)	Sensing Range
< 30,000	8meters
< 40,000	7meters
< 50,000	6meters
< 60,000	5meters
< 70,000	4meters
< 80,000	3meters

Mounting Bracket



Manual of Barrier (Curtain) Sensor

BS-200RC / BS-400RC / BS-600RC / BS-800RC

BS-200RC: 2 Beams- 57 cm long.

BS-400RC: 4 Beams- 105 cm long.

BS-600RC: 6 Beams- 153 cm long.

BS-800RC: 8 Beams- 201 cm long.

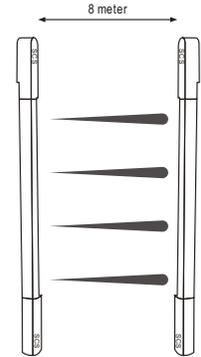
BS-**X**00RC-**Y**

X=2 or 4 or 6 or 8 beams

Y=B or W

B: Black finish housing

W: White finish housing



Applications:

- ⊙ Indoor / Outdoor perimeter security system
- ⊙ Window, Door. When the mounting space is limited
- ⊙ Internal / External protection / Terrace / Sliding door

Features:

- ⊙ Aluminum housing / PC Resin anti-UV cover / ABS side cap.
- ⊙ Anti-tamper circuit triggers alarm if power is cut or end cap is removed.
- ⊙ Slim aluminum housing, anti high-low temperature / fog / rains.
- ⊙ 2 or 4 / 6 / 8 separate photoelectric beam sensors. Programmable trigger on simultaneous breaking of any single / 2 adjacent beams or 2 adjacent beams broken only -- selected by JP2 on Rx's side cap
- ⊙ Terminal block connection.
- ⊙ Alarm: Break one or two adjacent beams.
- ⊙ Tx power adjustment: By VR1 (ON Tx's side cap).
- ⊙ Sensing range: 8 meters (26 ft.) -- outdoor 16 meters (52 ft.) -- indoor Max.
- ⊙ N.O./N.C./Common relay output.
- ⊙ Mounting hardware included.
- ⊙ No synchronizing wires required.
- ⊙ Led alignment indicator.
- ⊙ Tamper switch.

Specifications:



Sensing range	8 meters (26 feet) max.-outdoor / 16 meters (52 feet) max.-indoor
Input Voltage	10-24VDC
Detection method	Break one beam or two adjacent beams (1) 1 beam: 2 seconds alarm (2) 2 adjacent beams: immediately ***1 beam broken alarm trigger function can be removed; See (JP2) which located at Rx's side cap; (JP2) Jumper closed: 1 beam broken alarm (2 sec.) function existed. (JP2) Jumper opened: 1 beam broken alarm (2 sec.) function removed.
Signal output	Normal open / Normal close / Common relay output
Response Time (Rx)	50/100/150/200 ms (selectable - by SW1 slide switch-Rx)
Contact rating	1A/120VAC ; 1A/24VDC
Tx Power Adjustment (by VR1)	(a) when turn clockwise: become stronger (b) when turn counter-clockwise: become normal
Wiring Connection	Terminal block (See page 4)
Power Led indicator	Green Led (On both Tx/Rx unit) On : powered Off : no power
Led indicator for Beam alignment	Red Led (On Rx unit) On : when beam is broken ; Off : when beam is aligned properly
Buzzer Alarm (for beam alignment) Black jumper1 (JP1) (ON Rx) unit	(a) On : when sensor is connected with DC power & before beam alignment is done. (b) Off : when beam aligned properly ; automatically. ***This function can be cancelled by JP1 removed***
Tamper Switch	4 pcs/each set ; 2 on both sides of Tx/2 on both side of Rx
Operating Temp	-45°C ~ 55°C (-49°F ~ 131°F)
Dimensions	W: 35 mm / H: 30 mm / L: see following
Humidity	70%

Consumption current

▶ One beam broken continued 2 seconds alarm triggered **Cancelled.**
("JP2" jumper opened)

A

Conditions	BS-200RC		BS-400RC		BS-600RC		BS-800RC	
	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx
Beam Aligned	45mA	32mA	55mA	35mA	65mA	38mA	75mA	42mA
Beam Broken	45mA	40mA	55mA	43mA	65mA	45mA	75mA	48mA

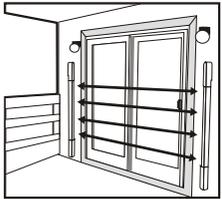
▶ One beam broken continued 2 seconds alarm triggered **Existed.**
("JP2" jumper closed)

B

Conditions	BS-200RC		BS-400RC		BS-600RC		BS-800RC	
	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx
Beam Aligned	45mA	38mA	55mA	40mA	65mA	43mA	75mA	45mA
Beam Broken	45mA	45mA	55mA	48mA	65mA	52mA	75mA	55mA

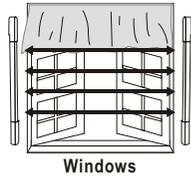
Applications

1



Terraces
(Sliding Door)

2



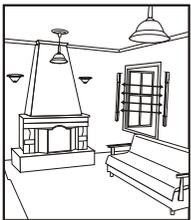
Windows

3



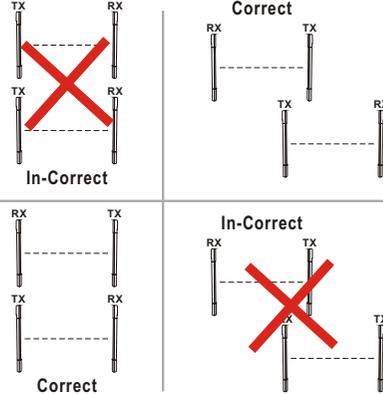
External
Protections

4

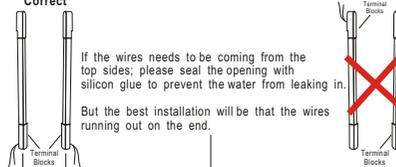


Internal
Protections

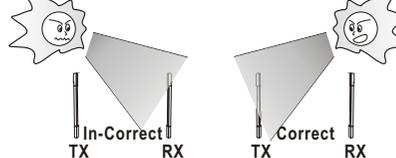
Installation Notes



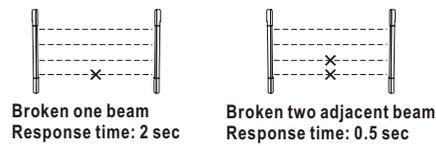
Suggestion of installation



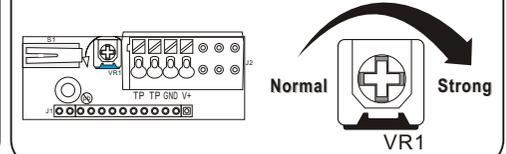
Sunlight



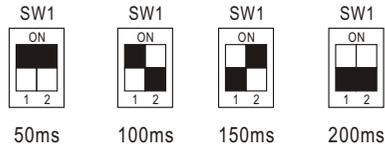
Response Time



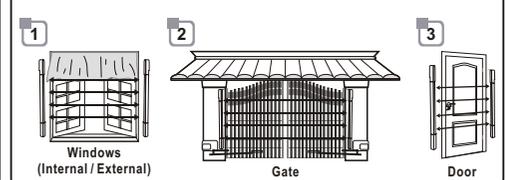
VR1 (On Tx Side Cap)



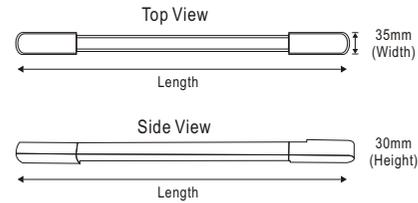
Response Time Adjustment (SW1-Rx)



Typical Installations



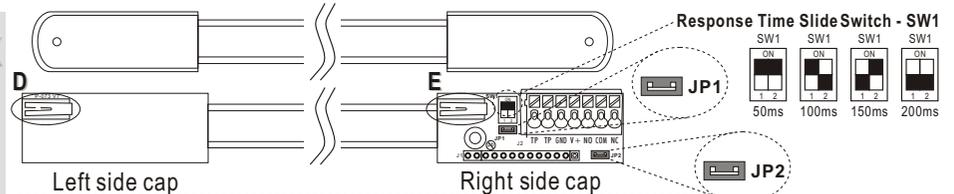
Dimensions



Length

Item	Beams	Length (cm)
BS-200RC	2	57
BS-400RC	4	105
BS-600RC	6	153
BS-800RC	8	201

Rx

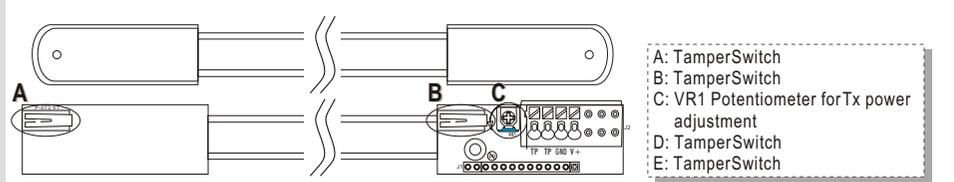


Left side cap

Right side cap

(JP2) Jumper → When Jumper closed: Onebeam broken alarm (2sec.)function existed.
When Jumper opened: Onebeam broken alarm (2sec.)function removed.
(JP1) Jumper → When Jumper closed: Buzzeralarm for beam alignmentfunction existed.
When Jumper opened: Buzzeralarm for beam alignmentfunction removed.

Tx



Left side cap

Right side cap

A: TamperSwitch
B: TamperSwitch
C: VR1 Potentiometer for Tx power adjustment
D: TamperSwitch
E: TamperSwitch