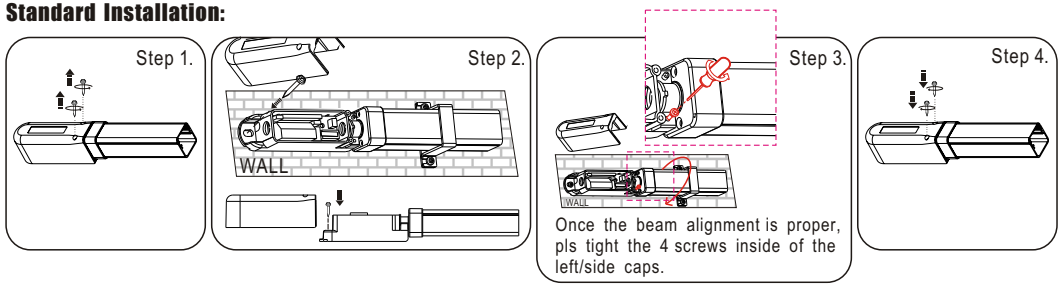
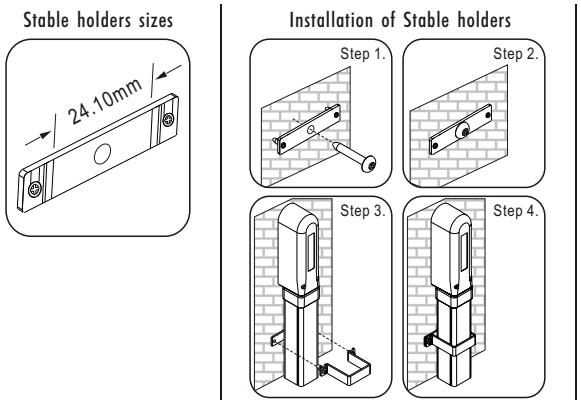
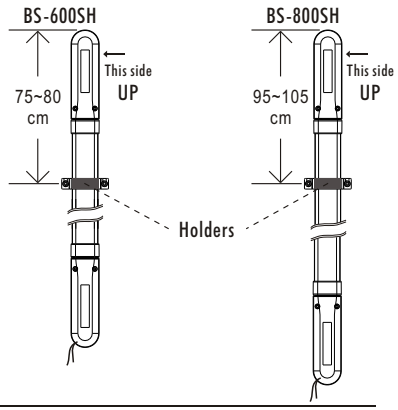
Standard Installation:



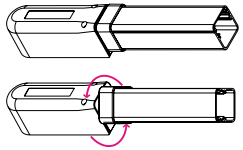
Stable holders (Only BS-600SH/BS-800SH include the following holders)



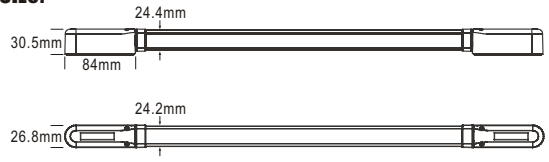
Ideal position for mounting the holders (Only BS-600SH/BS-800SH include the holders.)



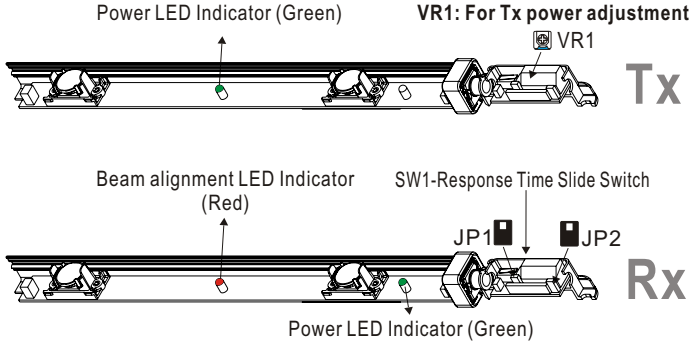
Swivel Housing:



Size:



Internal View:



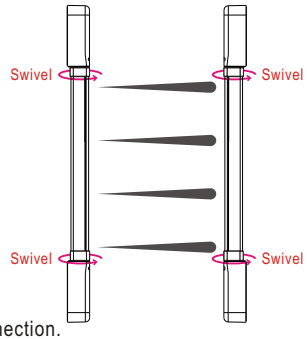
JP1: Buzzer alarm (for beam alignment)
※Remove JP1: cancel the function after beam aligned properly
JP2 Jumper closed: 1 beam broken alarm (2 sec.) Function existed.
JP2 Jumper opened: 1 beam broken alarm (2 sec.) function removed.

Manual of Barrier (Curtain) Sensor - *Swivel Housing*

BS-200SH / BS-400SH / BS-600SH / BS-800SH

BS-200SH: 2 Beams - 57 cm long.
BS-400SH: 4 Beams - 105 cm long.
BS-600SH: 6 Beams - 153 cm long.
BS-800SH: 8 Beams - 201 cm long.

BS-X00SH-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:

- ◎ ***Swivel Housing***
- ◎ 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: 12 meters (39 ft.) -- outdoor Max. 24 meters (78 ft.) -- indoor Max.
- ◎ N.O./N.C./Common relay output.
- ◎ Mounting hardware included.
- ◎ No synchronizing wires required.
- ◎ LED indicator alignment.
- ◎ Tamper switch.

Specifications:

CE

Sensing range	12 meters (39 feet) max.-outdoor / 24 meters (78 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	3A 125VAC
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	-25℃~55℃ (-49℉~131℉)
Dimensions	W: 35 mm / H: 30 mm / L: see following
Humidity	90%

Consumption current

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

A

Conditions	BS-200SH		BS-400SH		BS-600SH		BS-800SH	
Beam Aligned	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx
	22.1mA	39.8mA	24.7mA	42.5mA	27.4mA	44.9mA	29.9mA	47.3mA
Beam Broken	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx
	22.1mA	16.8mA	24.7mA	19.2mA	27.4mA	21.7mA	29.9mA	24.2mA

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

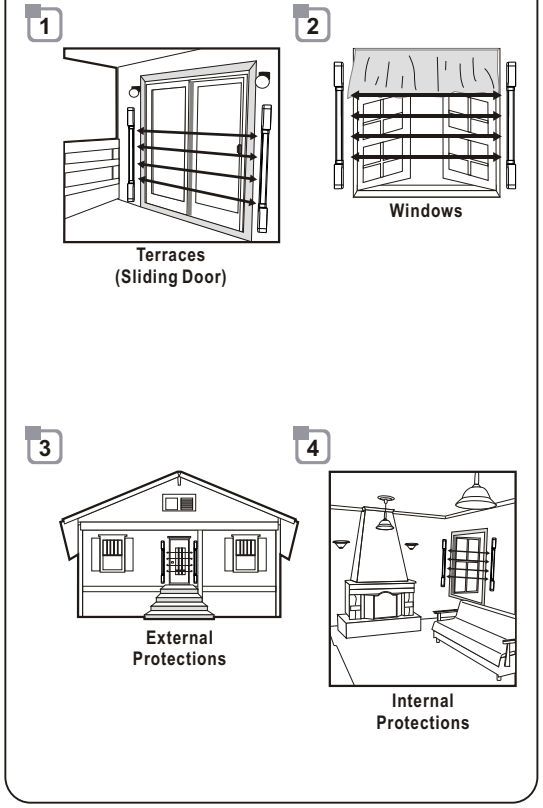
B

Conditions	BS-200SH		BS-400SH		BS-600SH		BS-800SH	
Beam Aligned	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx
	22.1mA	40.4mA	24.7mA	43.1mA	27.4mA	45.4mA	29.9mA	47.9mA
Beam Broken	Tx	Rx	Tx	Rx	Tx	Rx	Tx	Rx
	22.1mA	17.4mA	24.7mA	19.8mA	27.4mA	22.3mA	29.9mA	24.8mA

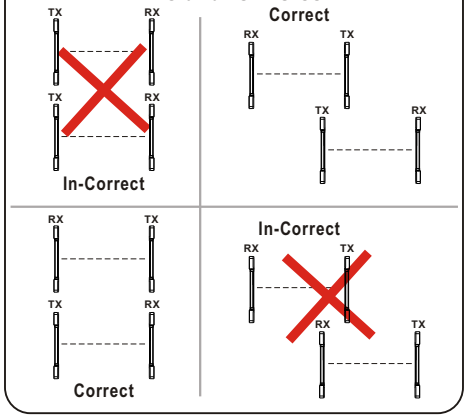
Sensing range V.S. Sunlight

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

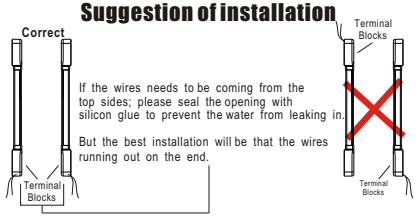
Applications



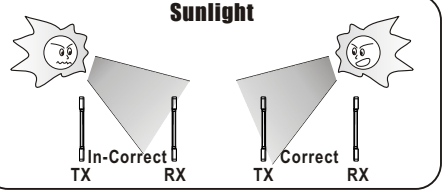
Installation Notes



Suggestion of installation



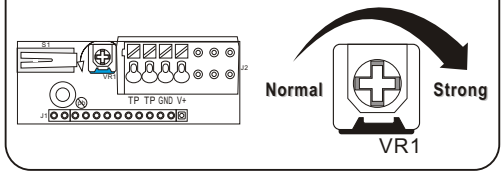
Sunlight



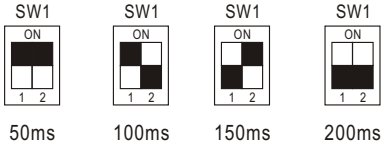
Manual of Barrier (Curtain) Sensor - *Swivel Housing*

Response Time

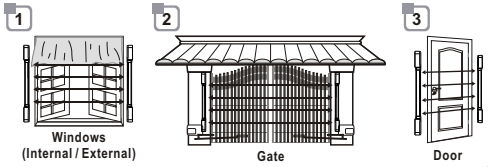
VR1 (On Tx Side Cap)



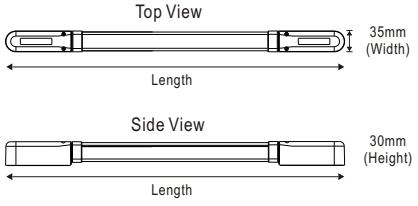
Response Time Adjustment (SW1-Rx)



Typical Installations



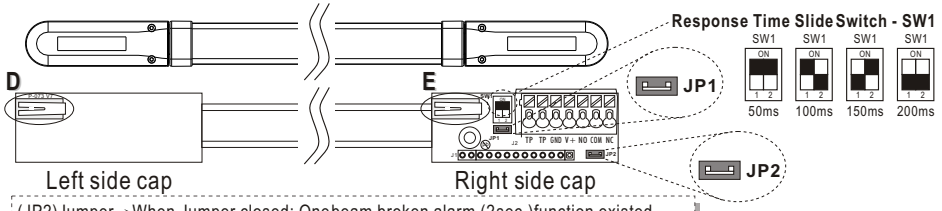
Dimensions



Length

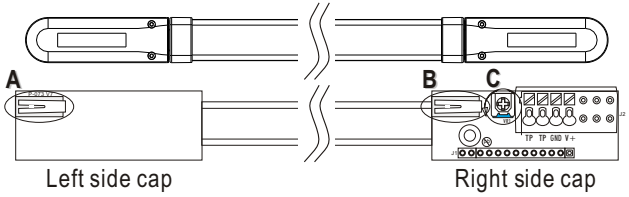
Item	Beams	Length (cm)
BS-200SH	2	57
BS-400SH	4	105
BS-600SH	6	153
BS-800SH	8	201

Rx



(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 alignment function existed.
When Jumper opened: Buzzeralarm for beam alignment function removed.

Tx



A: Tamper Switch
B: Tamper Switch
C: VR1 Potentiometer forTx power adjustment
D: Tamper Switch
E: Tamper Switch