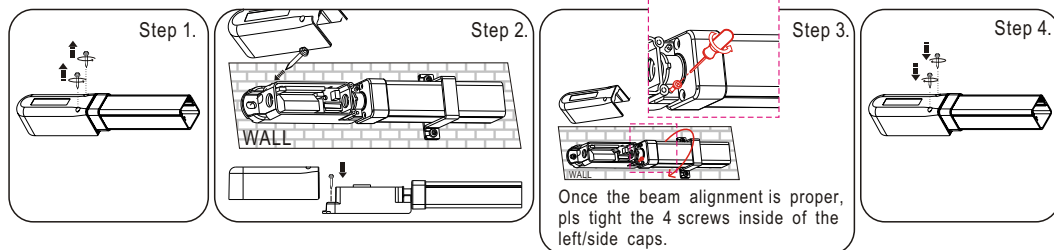


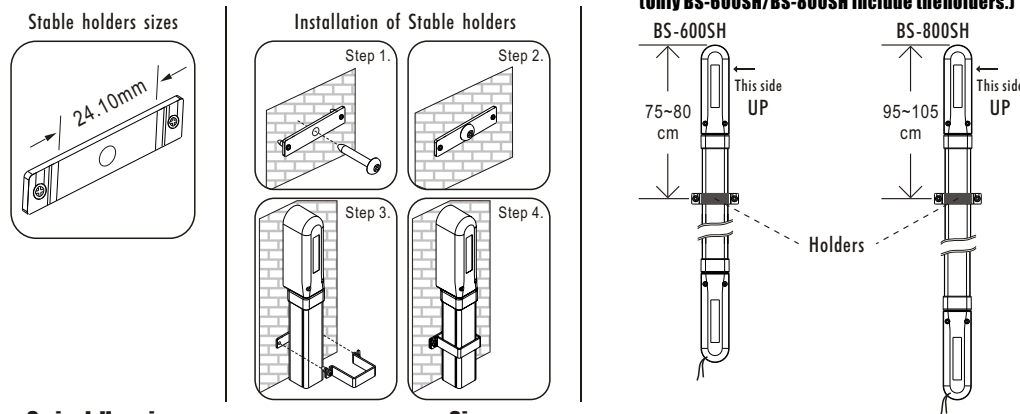
# Manual of Barrier (Curtain) Sensor - *Swivel Housing*

## Standard Installation:

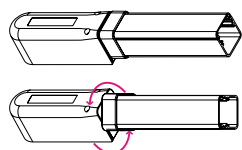


## Stable holders (Only BS-600SH/BS-800SH include the following holders)

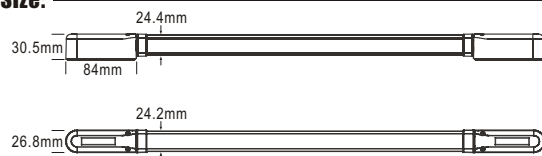
## Ideal position for mounting the holders (Only BS-600SH/BS-800SH include the holders.)



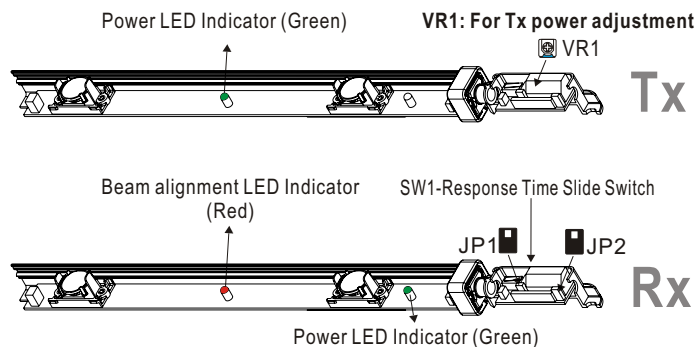
## Swivel Housing:



## Size:



## Internal View:



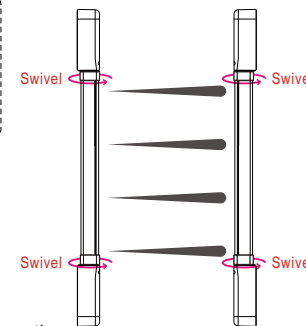
JP1: Buzzer alarm (for beam alignment)  
 ※Remove JP1: cancel the function after beam aligned properly  
 JP2 Jumper closed: 1 beam broken alarm (2 sec.) Function existed.  
 JP2 Jumper opened: 1 beam broken alarm (2 sec.) function removed.

# 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-**X**00SH-**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:



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°C~55°C (-49°F~131°F)
Dimensions	W: 35 mm / H: 30 mm / L: see following
Humidity	90%

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

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

## Consumption current

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

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

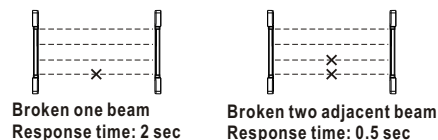
▶ One beam broken continued 2 seconds alarm triggered **Existed.**  
("JP2" jumper closed)

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

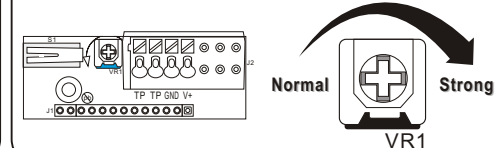
## Sensing range V.S. Sunlight

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

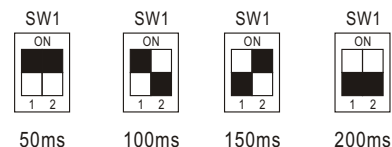
## Response Time



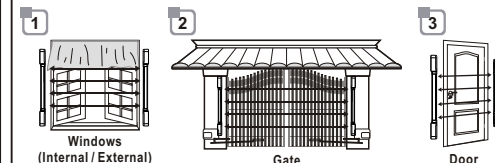
## VR1 (On Tx Side Cap)



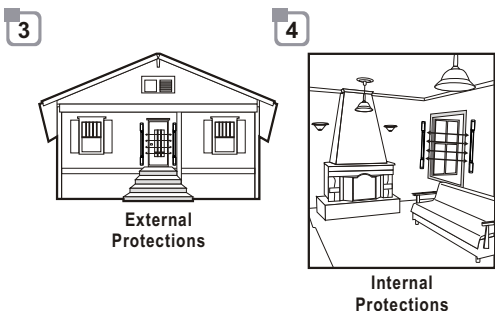
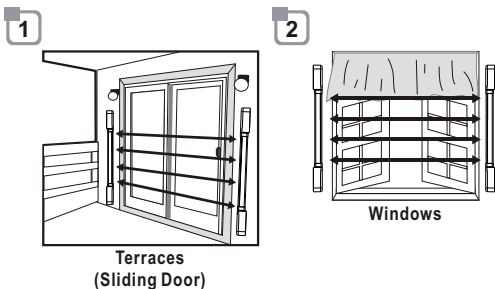
## Response Time Adjustment (SW1-Rx)



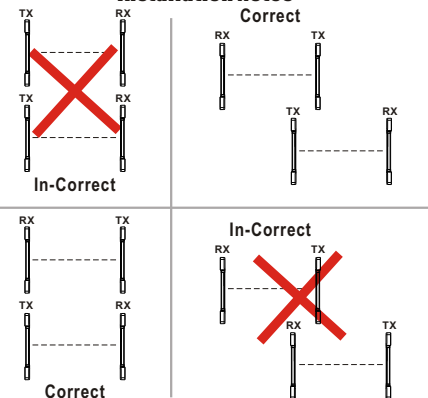
## Typical Installations



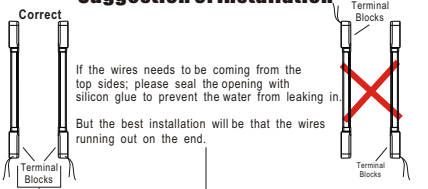
## Applications



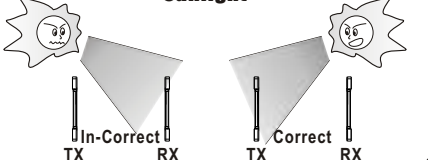
## Installation Notes



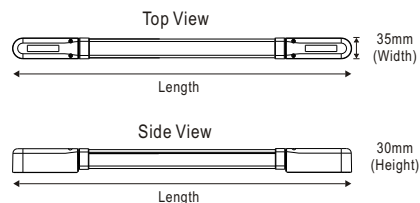
## Suggestion of installation



## Sunlight



## Dimensions



## Length

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

