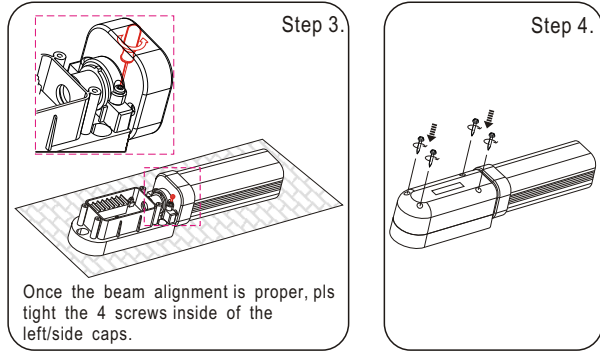
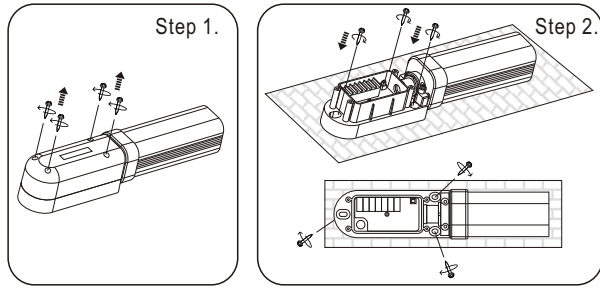


# Multi Frequency / Long Range Beam Tower

## Standard Installation:



## Length

Item	Beams	Length (mm)
BT-200X0	2x2	635
BT-400X0	4x2	1095
BT-600X0	6x2	1555
BT-800X0	8x2	2015

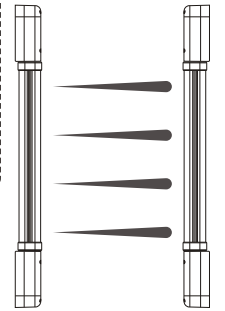
# Multi Frequency / Long Range Beam Tower

## Model No. Beams Total beams Range

BT-20030	2x2 beams	4 beams	30 meters
BT-20060	2x2 beams	4 beams	60 meters
BT-40030	4x2 beams	8 beams	30 meters
BT-40060	4x2 beams	8 beams	60 meters
BT-60030	6x2 beams	12 beams	30 meters
BT-60060	6x2 beams	12 beams	60 meters
BT-80030	8x2 beams	16 beams	30 meters
BT-80060	8x2 beams	16 beams	60 meters

BT- $\square$ 00 $\square$ 0-B or W  
 BT: BEAM TOWER  
 $\square$ =(2x2)/(4x2)/(6x2)/(8x2) beams  
 $\square$ =3 or 6  
 (Sensing Range : 30 or 60 meters)  
 B=Black / W=White

X meters (X=30 or 60)



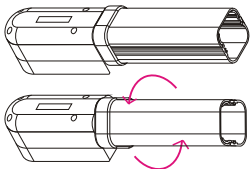
## Applications:

- Indoor / Outdoor perimeter security system
- Window, door, wall, gate, doorway, driveway
- Internal/External protection/Terrace/Sliding door, warehouse, entrance; etc.

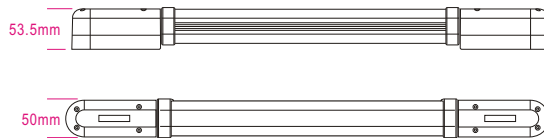
## Features:

- Long sensing range (30/60 meters outdoors)
- Heater available (optional)
- Aluminum housing/PC Resin anti-UV cover ABS side caps
- AGC circuits; Anti high-low temperature, fog, rains
- (2x2) or (4x2) or (6x2) or (8x2) beams separate photoelectric beam sensors, programmable trigger on simultaneous breaking of any single, or 2 adjacent beams/or 2 adjacent beams broken only--selectable by JP2 on Rx's side cap.
- Multi frequency (4 channels selectable)
- Terminal block wiring connection
- Alarm trigger: Break one or two adjacent beams
- N.C./N.O./COM relay output
- Mounting hardware included.
- No synchronizing wires required.
- Built in beam alignment led indicator.
- Built in beam alignment buzzer (beep sound).
- Built in tamper switches (left/right side caps of both Tx & Rx)

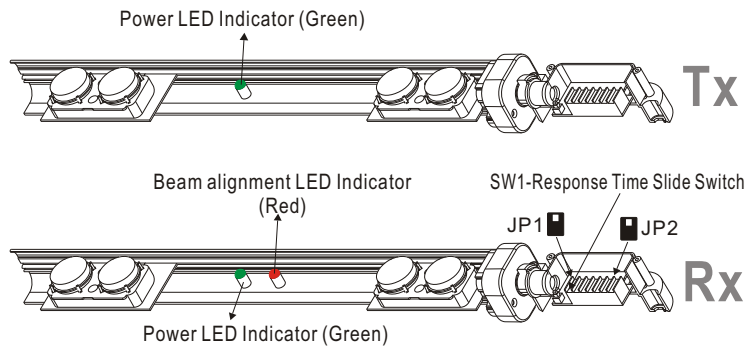
## Swivel Housing:



## 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.

## Specifications:



Sensing range	Outdoors: 30/60 meters---Indoors: 60/120 meters
Input Voltage	10-24VDC
Beams	2 x 2 beams / 2 x 4 beams / 2 x 6 beams / 2 x 8 beams
Detection method (JP2)	1. Any 2 (2 x 2) adjacent beams at the same time; relay trigger immediately 2. Any each (1 x 2) beams broken for more than 2 seconds; Then relay trigger *** (Remove JP2; one beam broken relay trigger function cancelled)
4 Channels selectable	(SW2) : Multi frequency function (4 channels selectable) available
Signal output	N.C./N.O./COM relay output
Response Time (Rx)	(SW1) : 150/300/450/600 msec (selectable, by SW1)
Delay time of relay	1 second
Relay capacity	1A/120VAC; 1A/24VDC
Wiring Connection	By terminal block
Power Led indicator	Green led on: Powered, Green led off: Power off
Beam alignment indicator	Built in red led indicator for beam alignment On: Beam aligned proper, off: Beam broken or power off
Beam alignment buzzer (JP1)	JP1 connected · Beep sound on: Beam broken or beam alignment failed · Beep sound off: Beam aligned or power off JP1 dis-connected · Non beep sound either beam aligned or broken
Heater	Heater available (optional)
Tamper switches	4 pcs; on left/right side caps for both Tx & Rx
Environment Temp.	-45°C~55°C (-49°F~131°F)
Engress Protection	IP-65
Humidity	95%
Dimensions	50(W) x 53.5(H) x (635/1,095/1,555/2,015)(H) mm

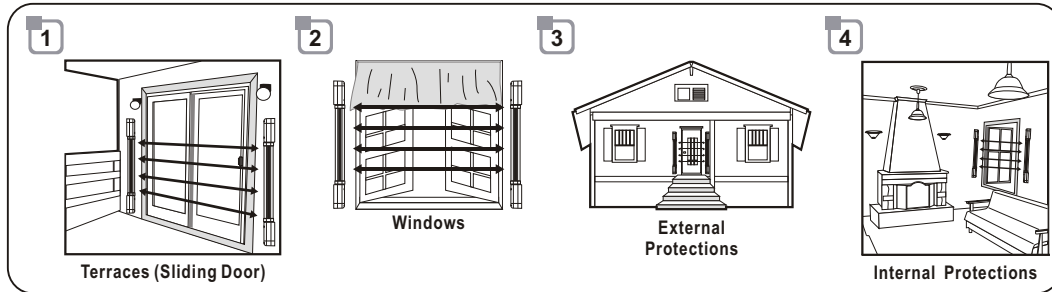
# Multi Frequency / Long Range Beam Tower

# Multi Frequency / Long Range Beam Tower

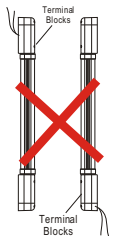
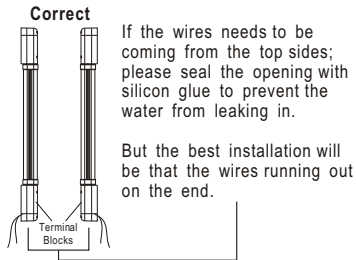
### Consumption current & total beams:

Model Number	Consumption current (Heater Off)	Consumption current (Heater On)	Total Beams
BT-20030	130mA	250mA	4
BT-20060	140mA	260mA	4
BT-40030	260mA	380mA	8
BT-40060	280mA	400mA	8
BT-60030	390mA	510mA	12
BT-60060	420mA	540mA	12
BT-80030	520mA	640mA	16
BT-80060	560mA	680mA	16

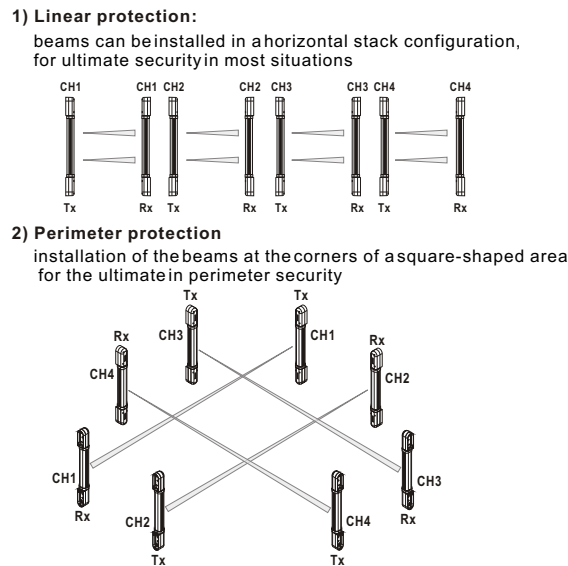
### Applications



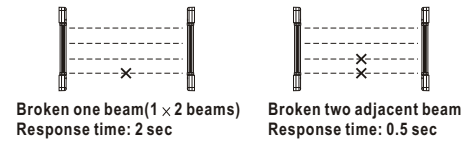
### Suggestion of installation



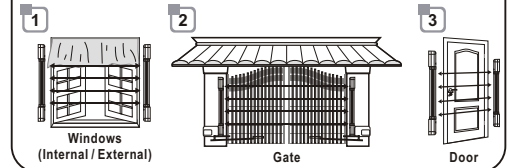
### Combination of actual installation



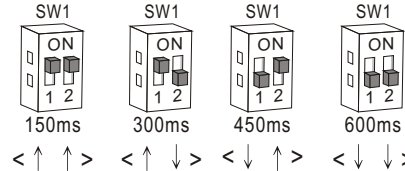
### Response Time



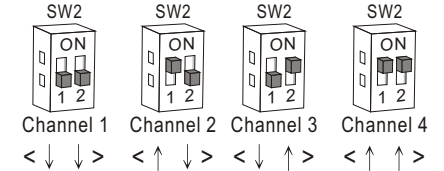
### Typical Installations



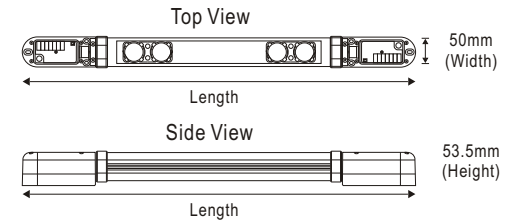
### Response Time Adjustment (SW1-Rx)



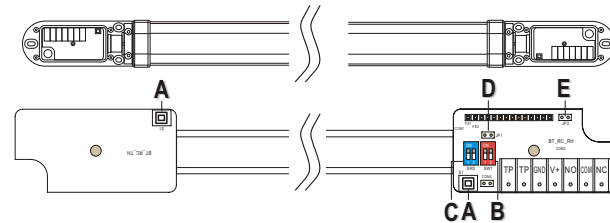
### Beam Channel Selectable (SW2-Tx & Rx)



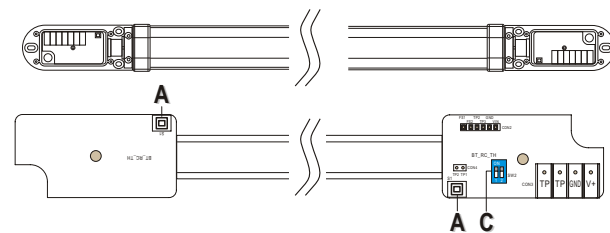
### Dimensions



Rx



Tx



A: S1- Tamper Switch

B: SW1- Switch for response time selection

C: SW2- Slide switch for beam channel selection

D: JP1- Jumper for Buzzer of beam alignment selection

E: JP2- Jumper for one beam (1 × 2 beams) broken relay trigger function existed or not.