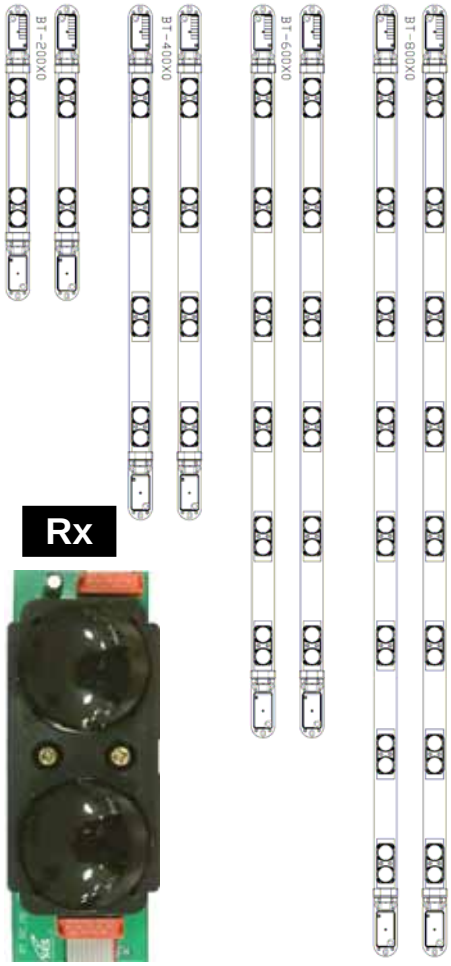
Multi Frequency/Long Range Beam Tower

Swivel housing/side caps; easy for beam alignment

Model No.:

Model No.	Beams	Total beams	Range
BT-20030	2 X 2 beams	4 beams	30 meters
BT-20060	2 X 2 beams	4 beams	60 meters
BT-40030	4 x 2 beams	8 beams	30 meters
BT-40060	4 x 2 beams	8 beams	60 meters
BT-60030	6 x 2 beams	12 beams	30 meters
BT-60060	6 x 2 beams	12 beams	60 meters
BT-80030	8 x 2 beams	16 beams	30 meters
BT-80060	8 x 2 beams	16 beams	60 meters

BT-200X0 BT-400X0 BT-600X0 BT-800X0



Finish: Black or White

If BS-20030-**B** ---**B**:means **Black**

If BS-20030-**W--W:**means **White**

Tx **Rx**

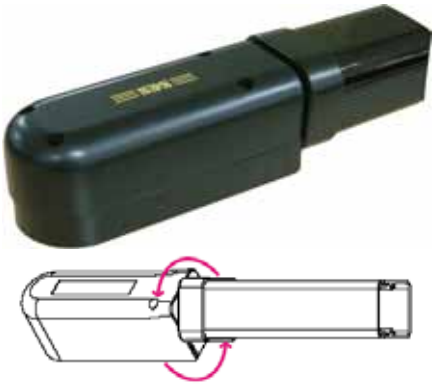
Height: X=3 or 6 (30 or 60 meters)

1. BT-200X0: 635 mm
2. BT-400X0: 1,095 mm
3. BT-600X0: 1,555 mm
4. BT-800X0: 2,015 mm

Applications:

1. Indoor/Outdoor perimeter security system
2. Window, door, wall
3. Internal/External protection/Terrace/Sliding door, warehouse, entrance; etc.
4. Gate, doorway, drive way

Swivel housing; side caps easy for beam alignment !!!



Features:

Swivel housing; side caps easy for beam alignment !!!

1. Long sensing range (30/60 meters outdoors)
2. Multi frequency (4 channels selectable)
3. Heater available (optional)
4. Aluminum housing/PC Resin anti-UV cover
   ABS side caps
5. AGC circuits; Anti high-low temperature, fog, rains
6. 2 or 4 or 6 or 8 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.
7. Terminal block wiring connection
8. Alarm trigger: Break one or two adjacent beams
9. N.C./N.O./COM relay output
10. Mounting hardware included.
11. No synchronizing wires required.
12. Built in beam alignment led indicator.
13. Built in beam alignment buzzer (beep sound).
14. Built in tamper switches (left/right side caps of both Tx & Rx)

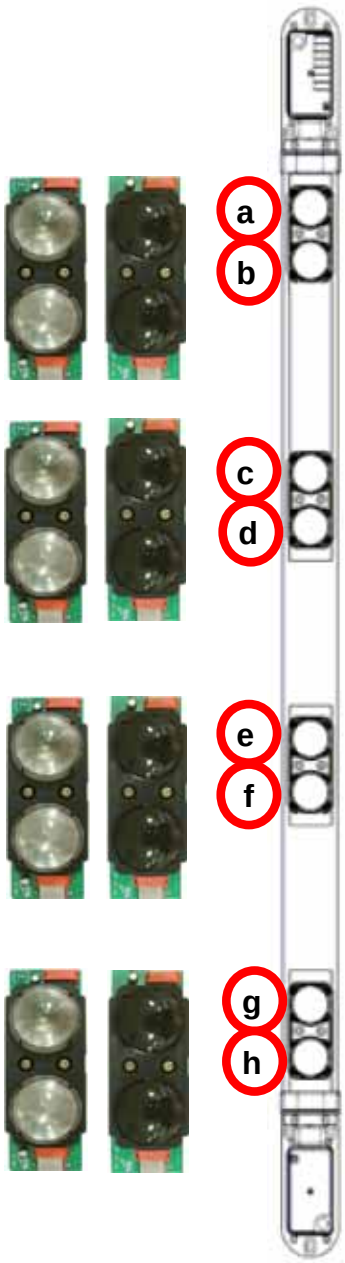
Sensing Rage	Outdoors: 30/60 meters---Indoors: 60/120 meters
Beams	2x 2 beams/2x 4 beams/2 x 6 beams/2 x 8 beams
Detection Method (JP2)	1. Any 2 (2 X 2) adjacent beams at the same time; relay trigger immediately
	2. Any each (1x2) beams broken for more than 2 seconds; Then relay trigger
	***(Remove JP2; one beam broken relay trigger function cancelled)
4 Channels selectable	(SW1): Multi frequency function (4 channels selectable) available
Signal output	N.C./N.O./COM relay output
Response time	(SW2): 120/240/360/480 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)	Built in beam alignment buzzer Beep sound on: Beam broken or beam alignment failed Beep sound off: Beam aligned or power off
Heater	Heater available (optional)
Tamper switches	4 pcs; on left/right side caps for both Tx & Rx
Environment Temp.	-45℃~55℃ (-49℉~131℉)
Engress Protection	IP-65
Humidity	95%
Dimensions:	50 (W) X 53.5 (H) X (635/1,095/1,555/2,015) (H) mm

How the relay (alarm) will be triggered ?

For example of BS-400X0 (4 X 2 beams):
(a+b)=Beam 1, (c+d)=Beam 2 ,(e+f)=Beam 3 (g+h)=Beam 4,
So, BS-400X0 is 8 beams actually !
BS-200X0 is 4 beams, BS-600X0 is 12 beams, BS-800X0 is 16 beams actually.

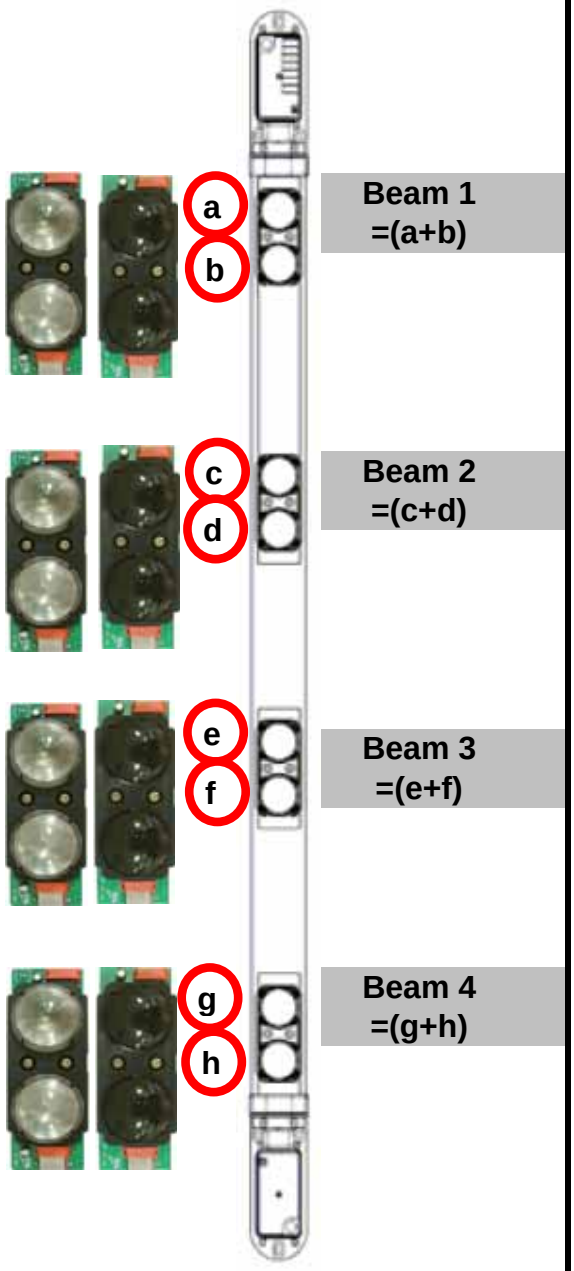
One beam broken:

Cut any of (a+b) or (c+d) or (e+f) or (g+h) beams (any of Beam 1 or 2 or 3 or 4 beams) for more than 2 seconds; then relay (alarm) trigger



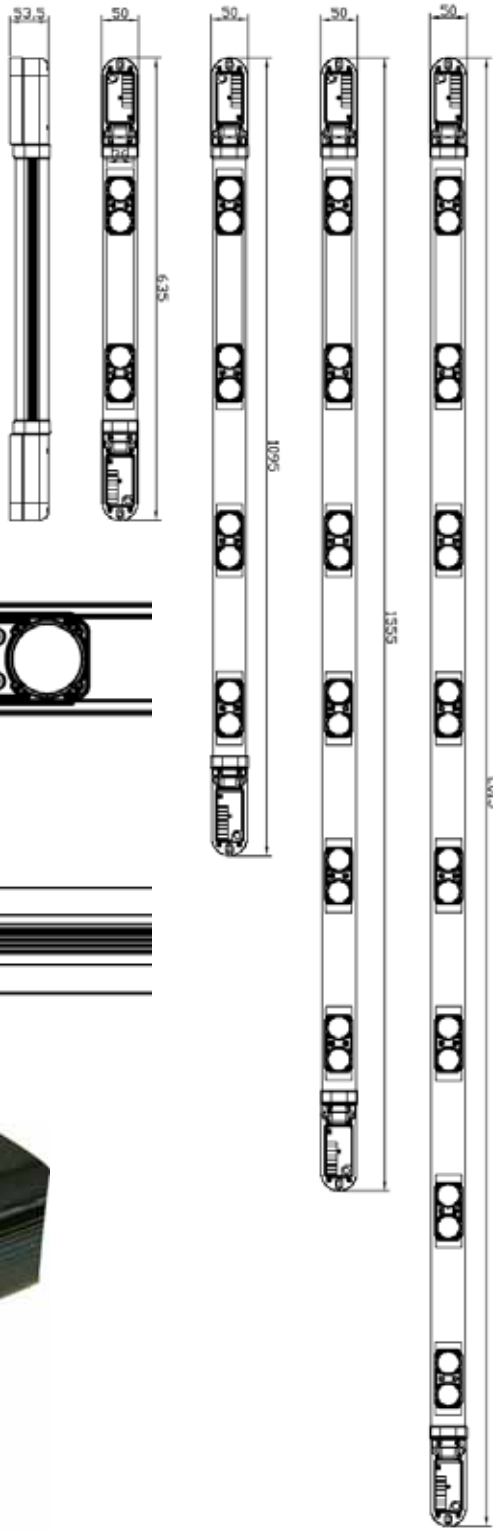
2 adjacent beams broken:

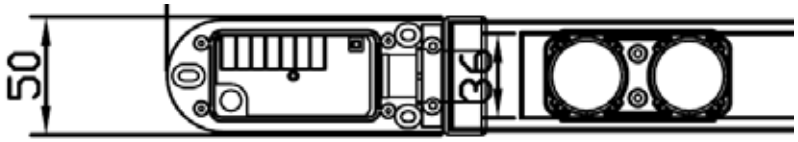
Cut (a+b+c+d) or (c+d+e+f) or (e+f+g+h) at the same time; then the relay (alarm) trigger immediately.

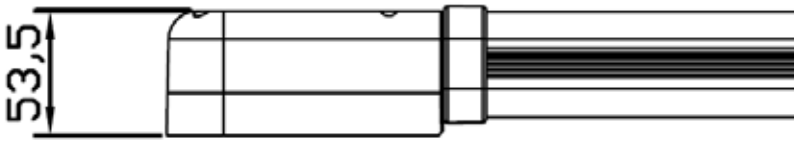


Dimensions:

BT-200X0: 50 (W) x 53.5 (H) x 635 (L) mm
BT-400X0: 50 (W) x 53.5 (H) x 1,095 (L) mm
BT-600X0: 50 (W) x 53.5 (H) x 1,555 (L) mm
BT-800X0: 50 (W) x 53.5 (H) x 2,015 (L) mm

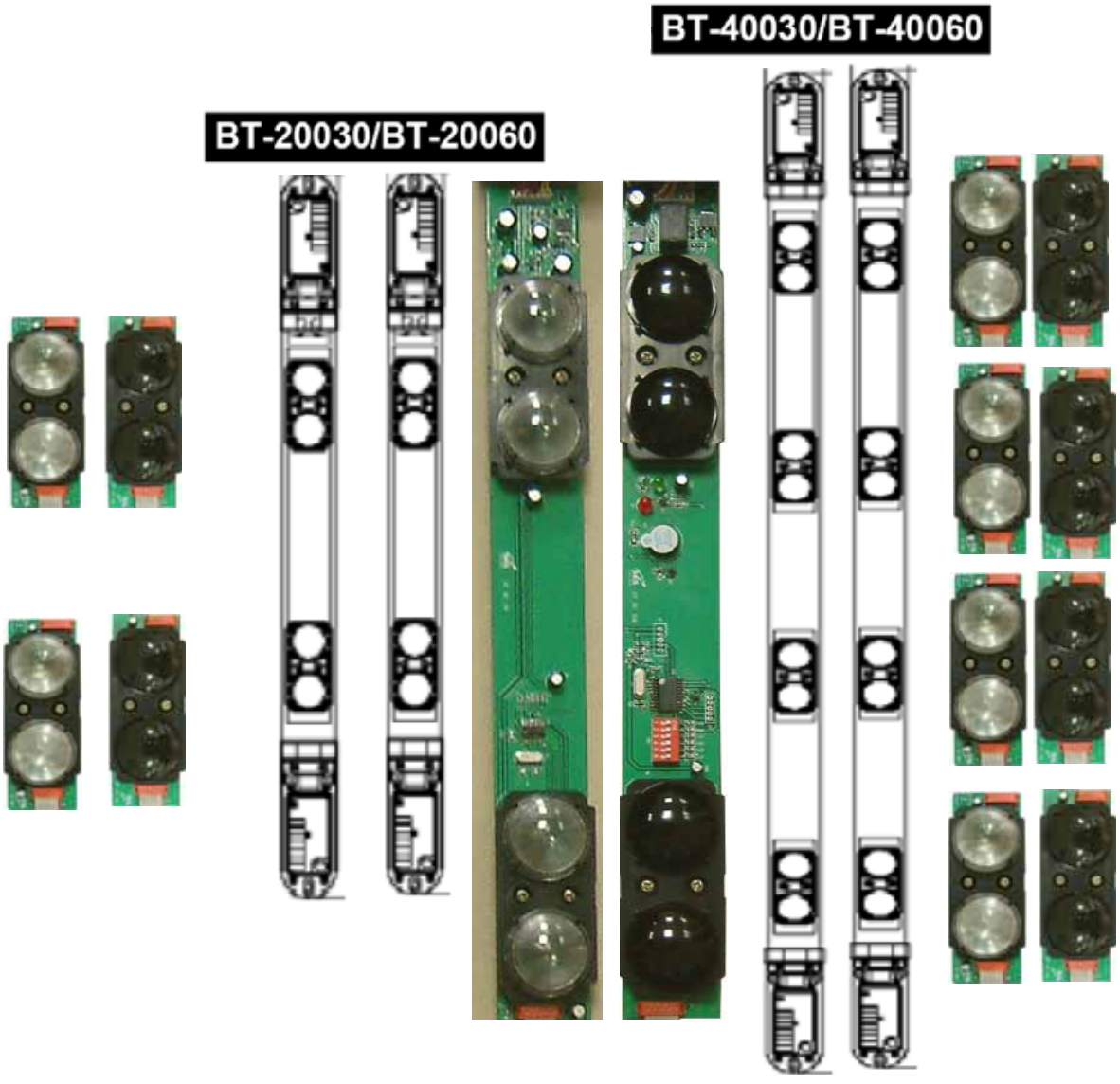






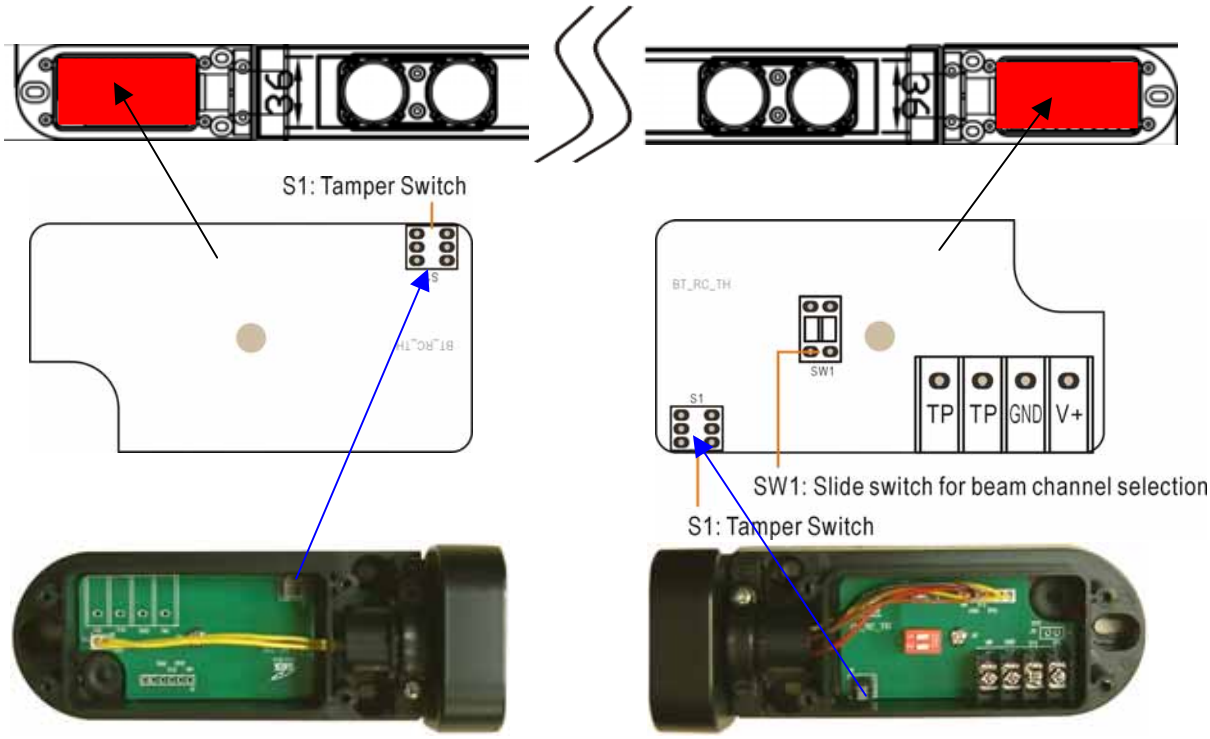
Consumption current & total beams:

Model No.	Consumption current (Heater Off)	Consumption (Heater On)	Total Beams
BT-20030	130 mA	250 mA	4
BT-20060	140 mA	260 mA	4
BT-40030	260 mA	380 mA	8
BT-40060	280 mA	400 mA	8
BT-60030	390 mA	510 mA	12
BT-60060	420 mA	540 mA	12
BT-80030	520 mA	640 mA	16
BT-80060	560 mA	680 mA	16

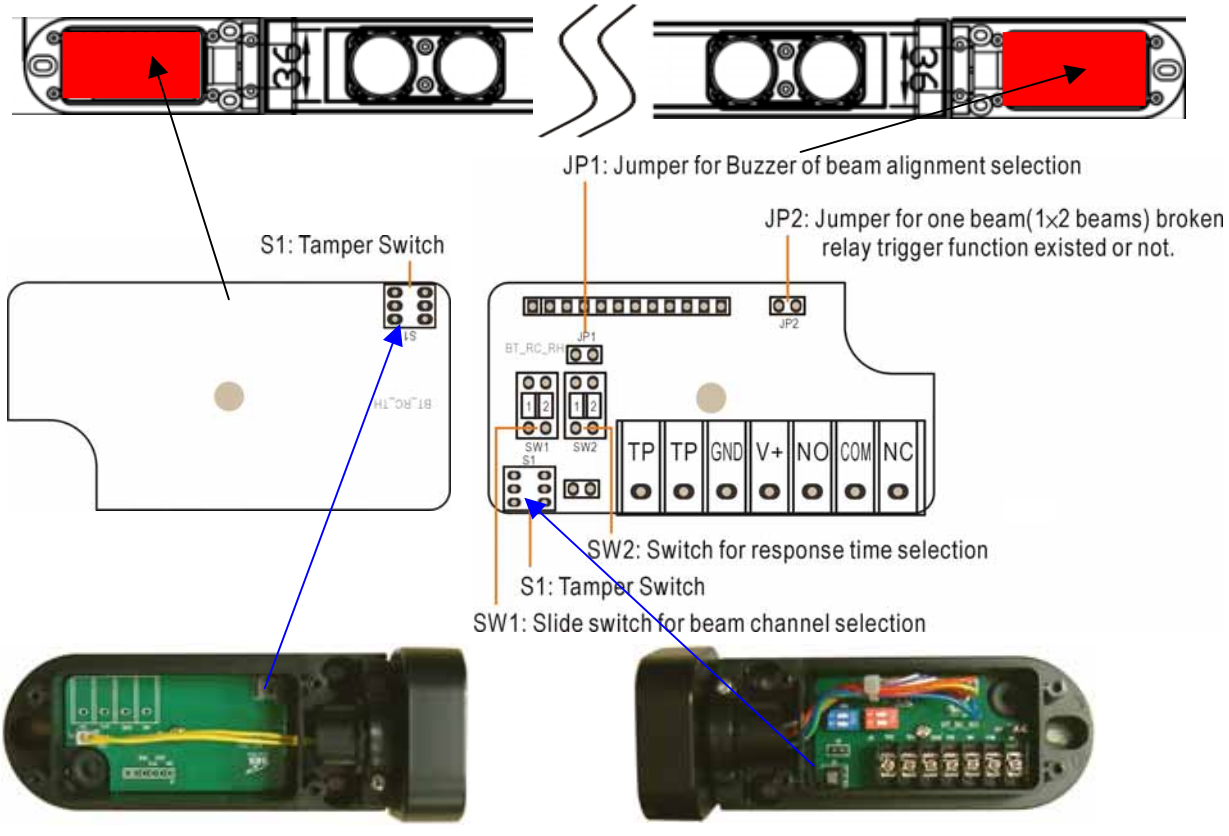


Wiring connection (terminal block) & function switches, jumpers guide

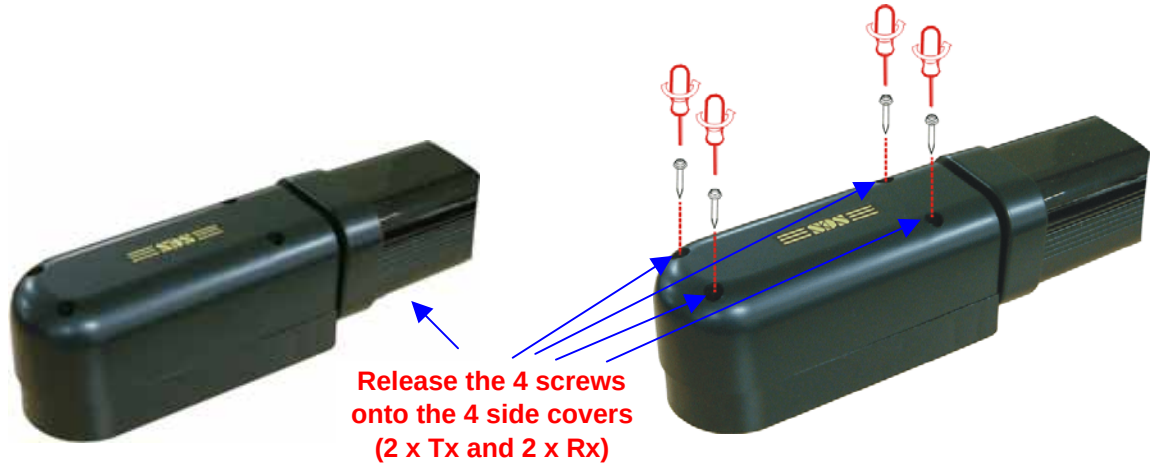
TRANSMITTER:



Receiver



How the swivel housing doing ?



Release the 4 screws
onto the 4 side covers
(2 x Tx and 2 x Rx)

Release the 4 screws
between the neck of the
side covers and housing

When beam aligned properly,
tight up the 4 screws and put the
side cover back to the original
position