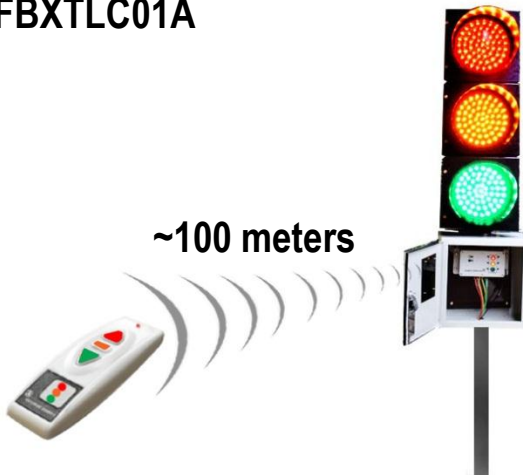


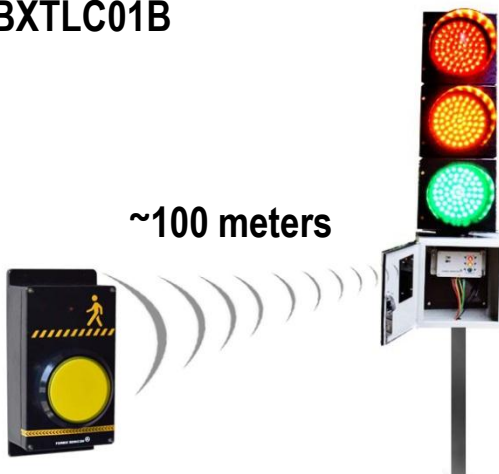
**FBXTLC01A**



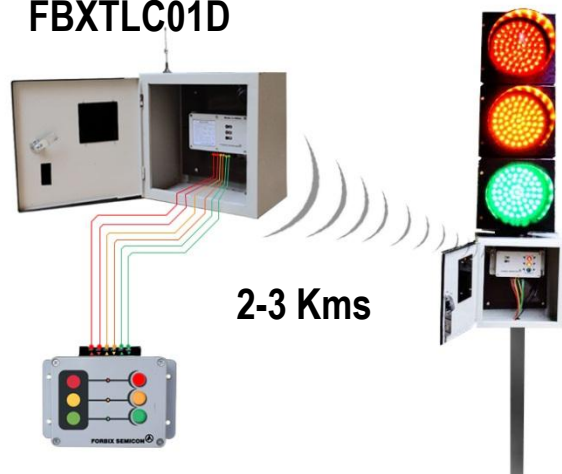
**FBXTLC01C**



**FBXTLC01B**



**FBXTLC01D**



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- **FBXTLC01A / FBXTLC01B:** (around 100 meters)
  - Usually deployed at pedestrian crossing
  - Vehicle crossing at airports / shopping malls / schools
  - Customized designed and machine trigger in factories
  - Train and truck movement in metallurgical foundries
- **FBXTLC01C / FBXTLC01D:** (around 2-3 Kms)
  - Deployed at ATC tower at airports
  - Sea ports for container movement
  - Customized designs for road junctions

### Traffic lights:

Colors: RED, Amber and Green in 1 set

Controller indicators

Receiver indicator : RED, AMBER and GREEN

Power supply : GREEN

Sync signal : BLUE

### Enclosure type :

IP 65 (color black) Polycarbonate (traffic lights)

IP 65 (color grey): for the receiver driver

Controller enclosure metallic (optional)

### Dimensions

Size: 260 x 260 x 100 mm (without visor)

Size: 260 x 260 x 280 mm (with visor)

Controller size: : 250 x 90 x 45 mm

Controller weight: 450 gms

Wire antenna length: 1 meter (2-3Km)

### Customized designs:

- One remote controlling more than one traffic light simultaneously
- Customized timing of traffic lights
- Traffic light arrangement for parking lots
- Vehicle detection traffic light
- Timing alternation traffic lights

### Model : FBXTLC01

Traffic lights RED + AMBER + GREEN

Traffic light controller

### Features:

The traffic light controller switches ON/OFF individual lights. ways to operate:

1) Low range remote controller: 100 meters range

2) Medium range remote: 250 meters range

3) Long range remote: 2-3 Kms range

Blinking: default AMBER blinking

ON signal => AMBER to GREEN (from any state)

OFF signal from transmitter => AMBER to RED (from any state)

Default signal from transmitter = blinking AMBER

### Technical details:

Operating voltage of the transmitter: 12VDC

Operating temperature: 25 ° C

PA: +10 dbm for 100m remotes / transmitter

PA: +28 dbm for 2-3Km remotes / transmitter

Receiver sensitivity: – 110dbm

Operating frequency: 315-480MHz

CRC on data payload: Enabled

Packet Error Rate: PER (1%)

Redundancy packet feature: Enabled

fOsc = 32MHz

Radio IC used CC1100 (from Texas Instruments) [Sub-GHz frequency]

### Applications

- Pedestrian road crossing. Security guard can control the traffic light by remote controller to assist pedestrian road crossing (control from around ~100 meters distance)
- Vehicle crossing in shopping malls and residential complexes: Security guard can control the vehicle movement to parking area by switching the light controls (control from around ~250 meters distance)
- Traffic light control at aerodrome from ATC tower to maneuver vehicle and aircraft movement (control from around ~2-3 Km distance)

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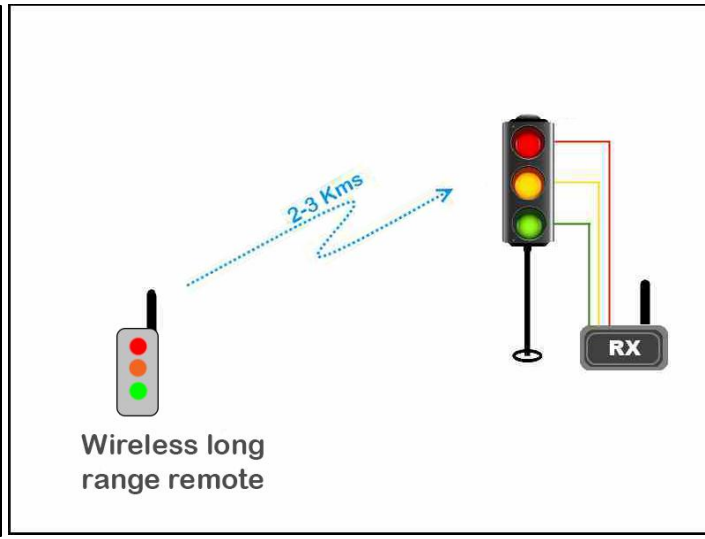
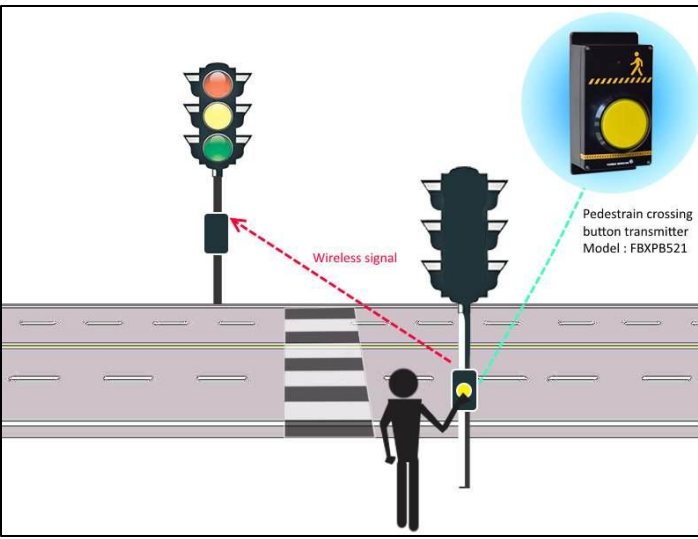
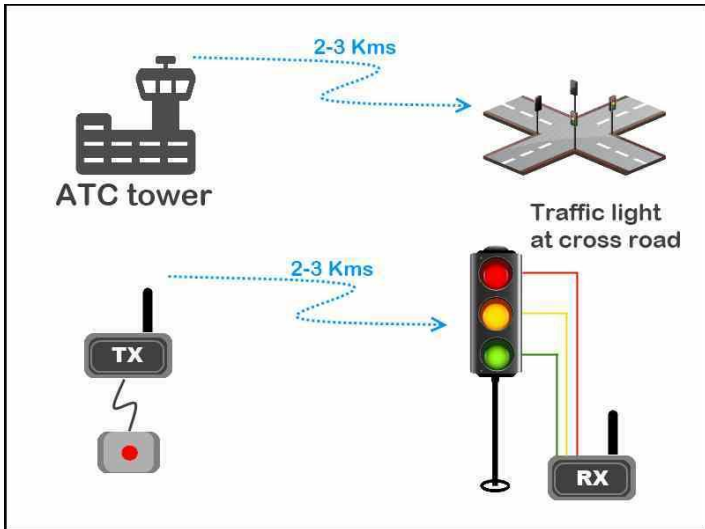
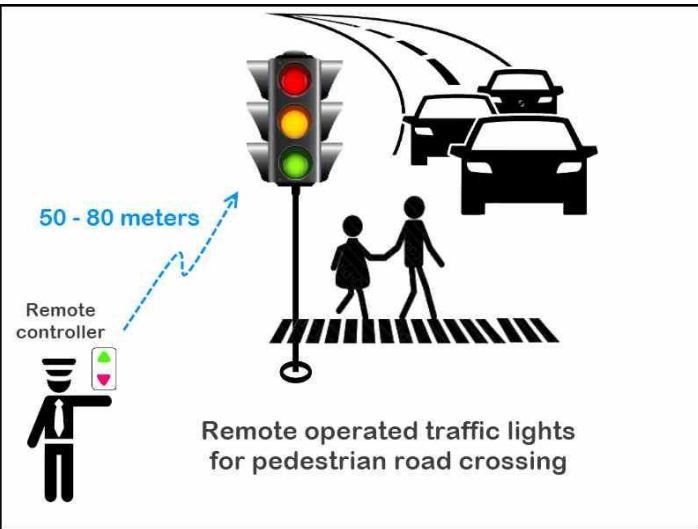
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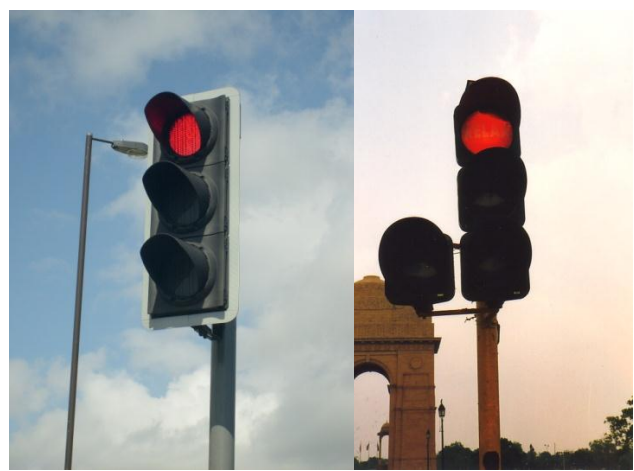
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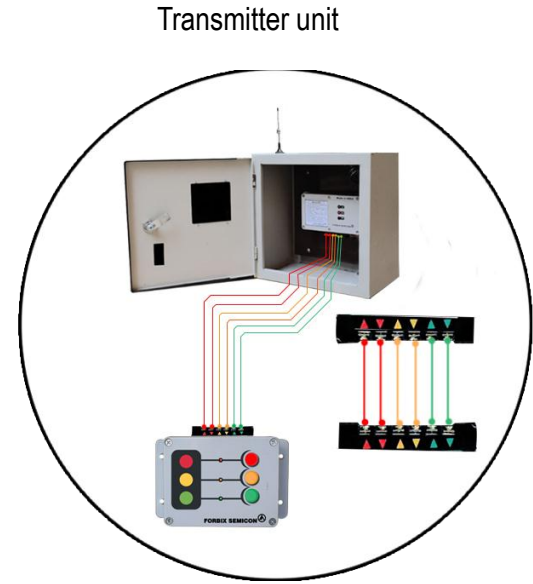
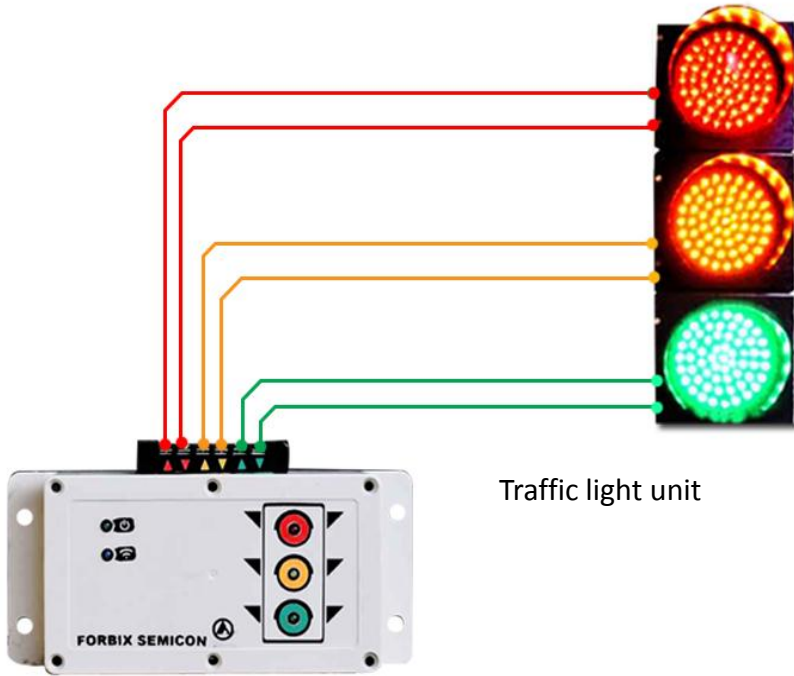
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# FBXTLC01: Wireless traffic light controller

## Technical specification



Transmitter button box wire connection

- Connection diagram for all 4 receiver models FBXTLC01A/B/C/D is same
- For FBXTLC01C/D models (2-3Kms), make sure to elevate the receiver unit 10-12 feet above the ground (on the pole)
- For all the models the transmitter and receiver should be visible to each other for reliable communication
- The metallic box for the receiver is weather proof and should be kept door closed at all times

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