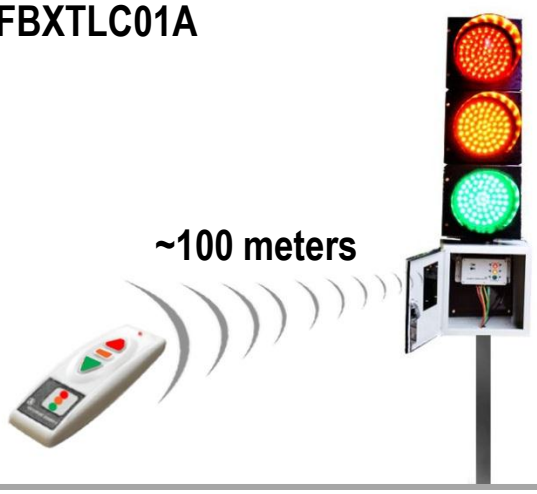
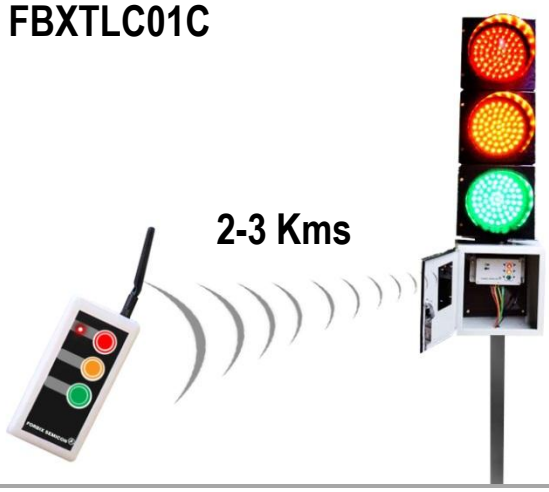
FBXTLC01: Wireless traffic light controller
Technical specification

FORBIX SEMICON™

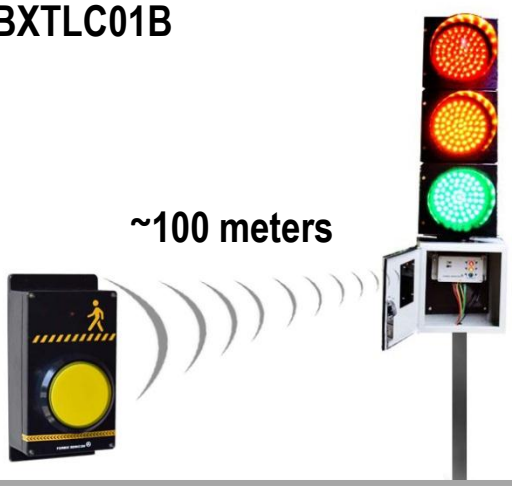
FBXTLC01A



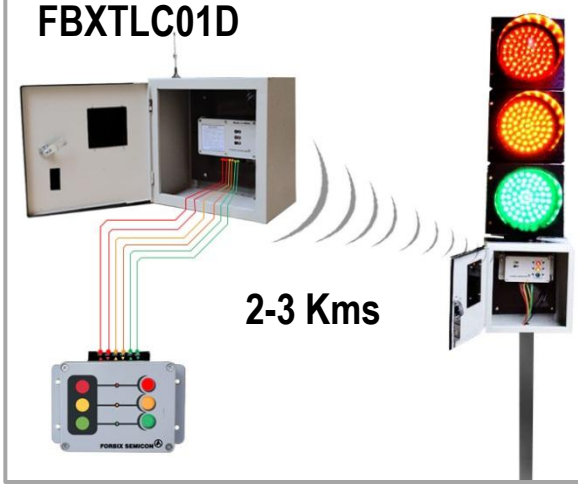
FBXTLC01C



FBXTLC01B



FBXTLC01D



FORBIX SEMICON INDIA PVT. LTD.
Bangalore, India
Website: https://www.forbixindia.com
+91 9742370190 / +91 9742159846

FORBIX Osaühing,
Tallinn, Estonia
Website: https://www.forbix.eu
+372 880 1510

Email: sales@forbixindia.com

- **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

FORBIX SEMICON™

FBXTLC01: Wireless traffic light controller
Technical specification

FORBIX SEMICON™

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 ºC
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)

FORBIX SEMICON INDIA PVT. LTD.
Bangalore, India
Website: https://www.forbixindia.com
+91 9742370190 / +91 9742159846

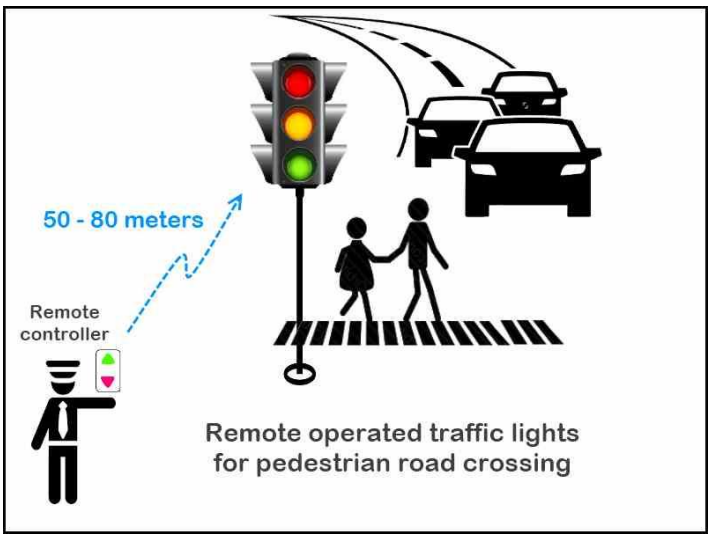
FORBIX Osaühing,
Tallinn, Estonia
Website: https://www.forbix.eu
+372 880 1510

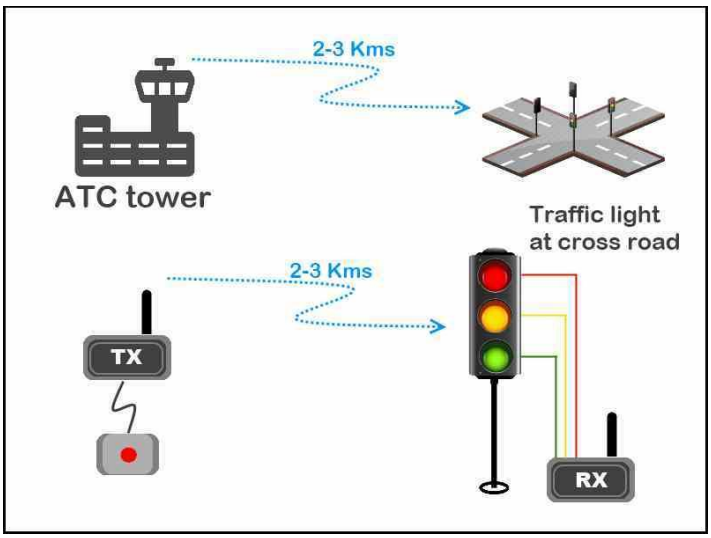
Email: sales@forbixindia.com

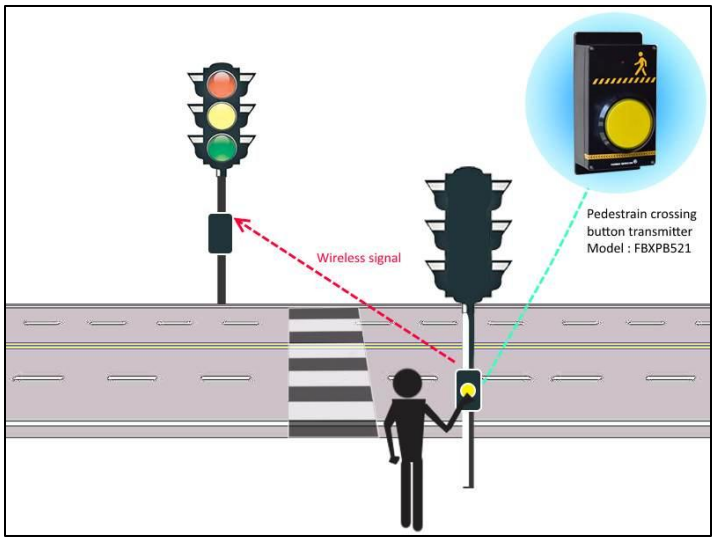
FORBIX SEMICON™

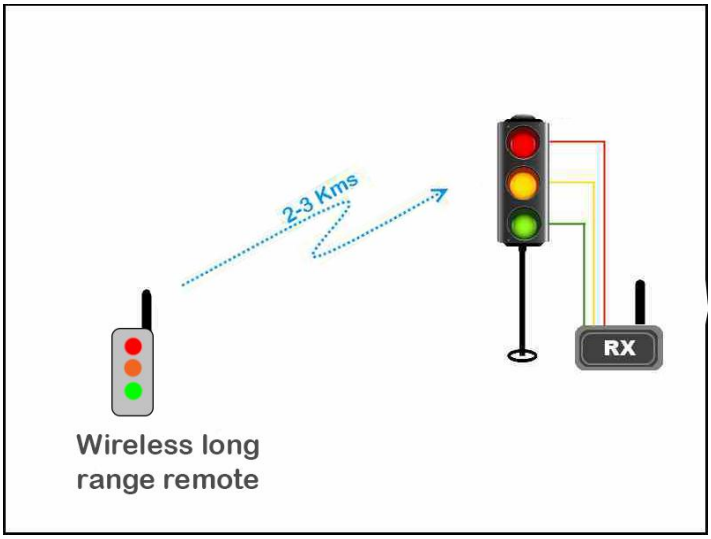
FBXTLC01: Wireless traffic light controller
Technical specification

FORBIX SEMICON™





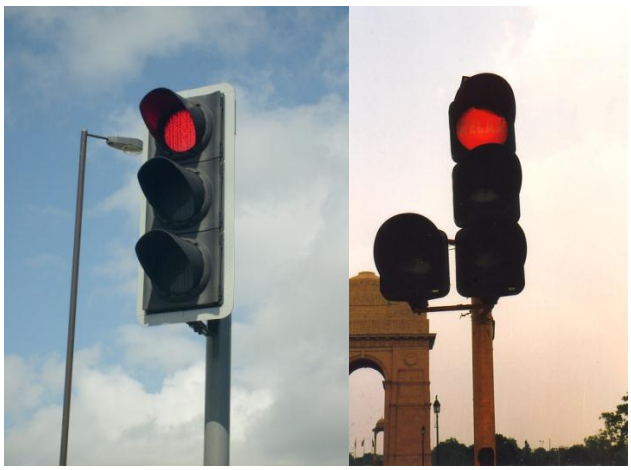




FORBIX SEMICON INDIA PVT. LTD.
Bangalore, India
Website: https://www.forbixindia.com
+91 9742370190 / +91 9742159846

FORBIX Osaühing,
Tallinn, Estonia
Website: https://www.forbix.eu
+372 880 1510

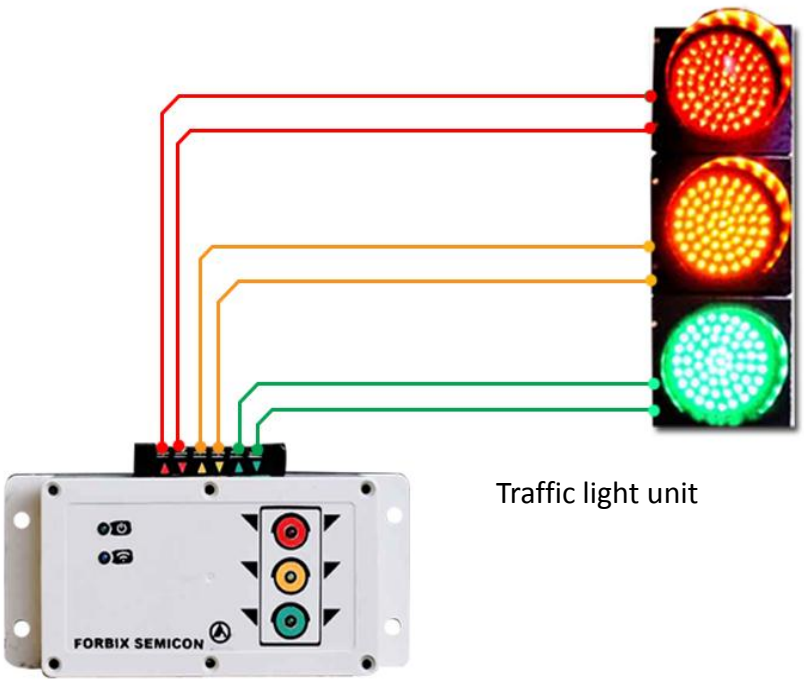
Email: sales@forbixindia.com



FORBIX SEMICON™

FBXTLC01: Wireless traffic light controller
Technical specification

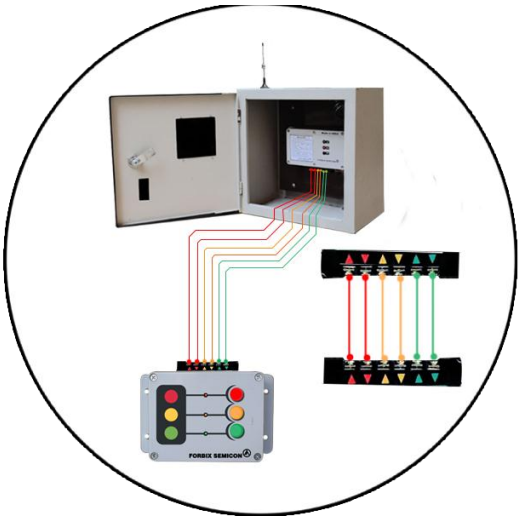
FORBIX SEMICON™



Traffic light unit

Receiver unit for FBXTLC01C & D

Transmitter unit



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

FORBIX SEMICON INDIA PVT. LTD.
Bangalore, India
Website: https://www.forbixindia.com
+91 9742370190 / +91 9742159846

FORBIX Osaühing,
Tallinn, Estonia
Website: https://www.forbix.eu
+372 880 1510

Email: sales@forbixindia.com