

Stoplight Emitter Working Principle Description

Working voltage for complete appliance: DC11.5-16.5V

Emitter working voltage: 8V

Emissive frequency: 433.92MHz

Sending antenna: loop antenna

Working principle of circuit:

Emitter has two circuits to power supply. One is stoplight power supply; the other is night-light power supply.

Night-light power supply refers to often turn off the electricity supply, LED flashes slightly for night driving.

When the driver clapped on his brakes, the circuit obtained voltage, stoplight circuit power supply refers to supply with stoplight LED circuit and 8V power management circuit. Then 8V stabilized supply voltage supply with code circuit and 433.92MHz high frequency transmitting circuit. When jammed the brakes, stoplight LED will flash. The code circuit generates machine code and supply with 433.92MHz high frequency transmitting circuit. After high frequency transmitting circuit receive machine code sent by code circuit, high level high frequency transmitting circuit will emit, low level will stop emitting. Emissive frequency stabilized in 433.92MHz by acoustic generator.