

# BRD02 Traffic Detector

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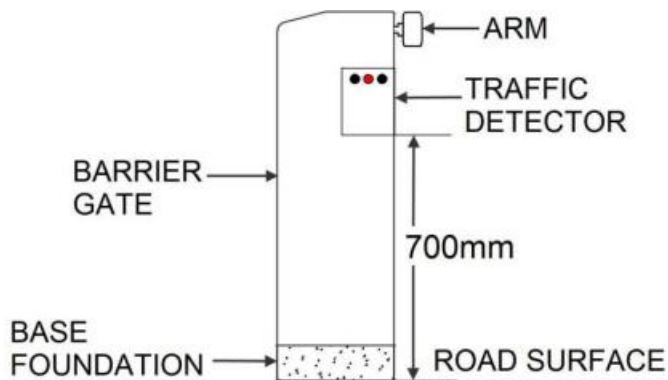
## Technical Specification

Description	Parameter
Input Voltage	DC 12V, 150 mA
Working Frequencies	24 - 24.5 Ghz
Modulation Mode	FMCW
Sending Power	10 - 15 dBm
Angle between Beam & Pole	Wide wave <15, Narrow wave <12
Detection Distance	1 - 6 Meter
Working Temperature	-40°C - 85°C
IP Rating	IP 67
Dimension	115mm (L) x 95mm (W) x 25mm (H)

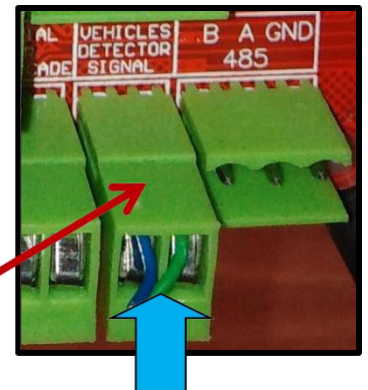
## Product Description

BRD02 is a traffic detector that adopts 24 - 24.25GHz Frequency Modulated Continuous Wave (FMCW) and high speed digital signal processing technology to calculate the target distance by calculating the frequency difference between the received echo frequency and the transmission frequency. After logical operation, it performs external control and data transmission.

## Installation



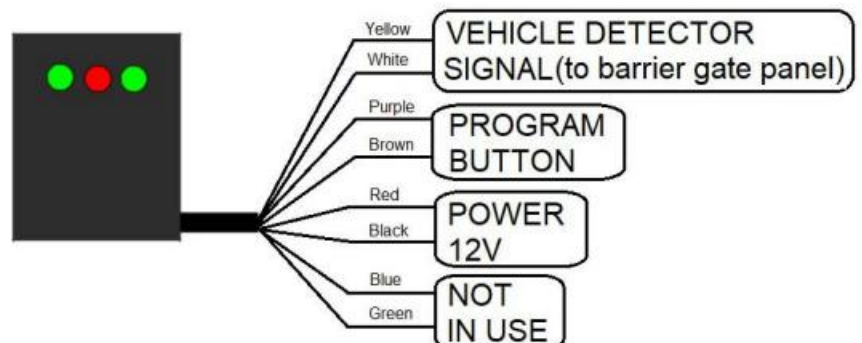
Barrier Gate Panel



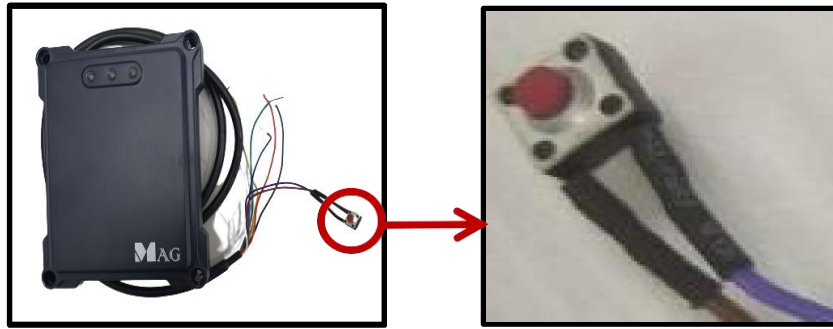
Output wires from detector (White & Yellow wires)

## Wiring Description

Color	Definition
Red	Power Input +12VDC
Black	Power Input GND
Blue	Not in use
Green	Not in use
Purple	Program Button Input
Brown	Program Button Input Gnd
White	Relay Output NO
Yellow	Relay Output COM



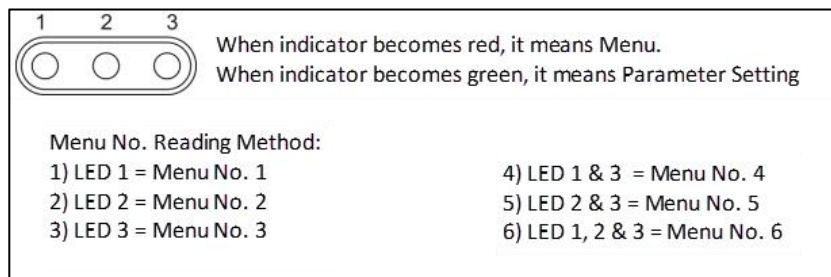
## Setting Method



**Program Button**

- 1) Press and hold the program button for 3 seconds.
- 2) Wait till all 3 LED light starts to blink.
- 3) The red light will be blinking from left to right. (Refer to Picture 1)
- 4) Release the button when it reaches the blinking LED desired. (Refer to Table 1)
- 5) Traffic Detector LED will turn green then enter the corresponding function setting menu.
- 6) Adjust the parameter in the setting menu by using the button. (Refer to Section A)
- 7) After done adjusting, press, and hold the button until all red LED flash then release the button, it will automatically save and exits the setting menu.

\*(Note: After setting the parameters, it must be saved; otherwise the parameter will not change and the detector will automatically exit the menu setting after 10 seconds)



Picture 1

### Traffic Detector Parameter Setting

Menu No.	Default Value	Function Setting	Remark
LED 1	2.5 meters	Set maximum detection distance	Accumulate 0.5m each time

Table 1

#### A) Detection Distance Setting

- Default distance is 2.5 meter.
- When detection distance is 1 meter, Green light LED 1 is Hold.
- When detection distance is 1.5 meter, Green light LED 1 is blinking
- The longer the detection distance, the more LED will turn on.

LED Indicator	Distance (meter)	Green LED Status	LED Indicator	Distance (meter)	Green LED Status
LED 1	1.0	Hold	LED 1 & 3	4	Hold
LED 1	1.5	Blinking	LED 1 & 3	4.5	Blinking
LED 2	2.0	Hold	LED 2 & 3	5	Hold
LED 2	2.5	Blinking	LED 2 & 3	5.5	Blinking
LED 3	3.0	Hold	LED 1, 2 & 3	6	Hold
LED 3	3.5	Blinking			

Table 2