

BRD03 DualRay and LED Display Traffic Detector

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Technical Specification

Description	Parameter
Input Voltage	DC 12V, 250mA
Detection	Dual Lens for 3D Detection
Working Frequencies	24 - 24.5 Ghz
Modulation Mode	FMCW
Transmission Power	10 - 15 dBm
Detection Distance	1 - 6 meters, ± 0.2 meters
Working Temperature	-40°C - 85°C
IP Rating	IP67
Dimension	126mm(L) x 96mm(W) x 26mm(H)

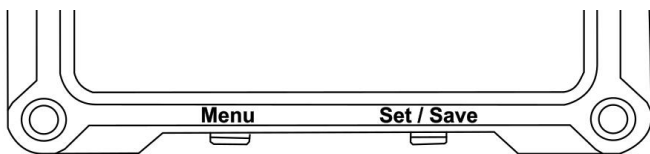
Installation and Wiring

Barrier Controller

* Connect white & yellow wire from BRD03 to vehicles detector signal

Cable Colour	Description
Red	12V
Black	GND
Yellow	N.O SIGNAL
Blue	N.C SIGNAL
White	COM SIGNAL
Green	Not In Use

Menu selection



Setting instruction:

1. Press and hold the "MENU" button for 3 seconds.
2. The LED Display show first menu which is "RANGE".
3. Press the "MENU" button again to change to other parameters
4. To set the value, press "SET/SAVE" button
5. After done, press and hold the "SET/SAVE" button until the LED flash then let go the button, it will automatically save and exits the menu.
6. Once complete, LED Display will back to Normal.



RANGE Setting



MODE Setting



SPEED Setting



DELAY Setting

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

Function Parameter Setting and Description

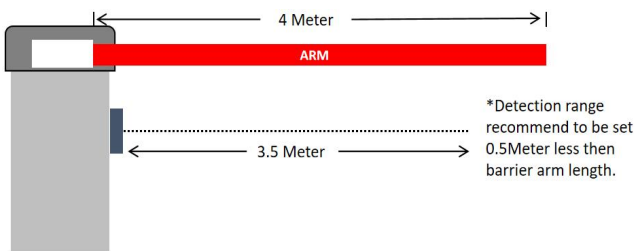
Traffic Detector Parameter Setting

Menu	Parameter Setting	Remark	Default Value
- RANGE	Set maximum detection distance	The range distance increase by 0.5meters	2.5 meters
- SPEED	Detection sensitivity	Time how long the sensitivity boost (only on fence arm mode)	6 seconds
- DELAY	Set timer delay output	Timer for Barrier stay open after car is passed by	0 seconds
- MODE	Working Mode	1: Straight Arm Mode / 2: Fence Arm Mode	1.0

* Please note that, BRD03 is **Plug and Play** device, all the default setting initially set is base on normal installation.

** If there is **changes environment or error at installation site** please follow below instruction.

1) Detection distance



Setting instruction:

1. Press and hold the button to enter Menu "RANGE"
 2. Press the "SET/SAVE" button to set the distance.
 3. Each time press "SET/SAVE" it will increase by 0.5 meter.
 4. After select distance. Press and hold the "SET/SAVE" button, LED display will start blinking
 5. After setting is done only LED display will back to normal
- *Note: Make sure detection range is 0.5 meter less then the actual arm length**

2) Working Mode

Working Mode	Sensitivity Low	Sensitivity Medium	Sensitivity High
Straight Arm Mode	1.L	1.0 (default)	1.H
Fence Mode	2.L	2.0	2.H

Setting instruction:

1. Press and hold the "MENU" button to enter Menu
2. Press "MENU" button until "MODE" Menu
3. Press the "SET/SAVE" button to set the mode.
4. After select mode. Press and hold the "SET/SAVE" button, LED display will start blinking
5. After setting is done only LED display will back to normal

***Note: Working mode is important and it depends on barrier arm type. Its advisable to set to 1.0 (Default) to make BRD03 working at optimal performance. Low Sensitivity is used for distinguish.**

SPECIAL NOTE

* Make sure to use low noise power supply.

*Only install the BRD03 on flat surface and do not install it in front uneven road surface.

*For fence arm barrier setting, please refer to full installation manual.

*For full installation manual and setting, please scan the QR Code beside.



***Product performances is based on testing in a controlled environment. Your result may vary due to several external and environment factors.**



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