

**BRD03 Dual Ray and LED Display Traffic Detector**

WWW.MAG.COM.MY



**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) |

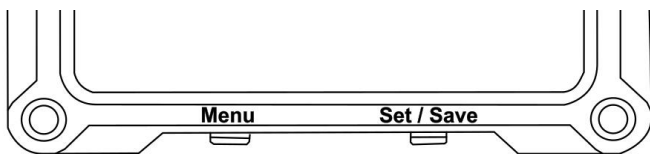
**Installation and Wiring**

**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**



RANGE Setting



MODE Setting



SPEED Setting



DELAY Setting

**Setting instruction:**

1. Press and hold the "MENU" button for 3 seconds.
2. The LED Display will enter first menu which is "RANGE".
3. Press the "MENU" button again to switch to other parameters.
4. To change the value, press "SET/SAVE" button.
5. Press and hold the "SET/SAVE" button until the LED flash then release the button to save the settings.
6. Once complete, LED Display will return to working mode.

\*(Note: After modifying any setting, it must be saved for the changes to take effect; otherwise the setting will not change and the detector will automatically exit the settings menu after 10 seconds.)

# Function Parameter Setting and Description

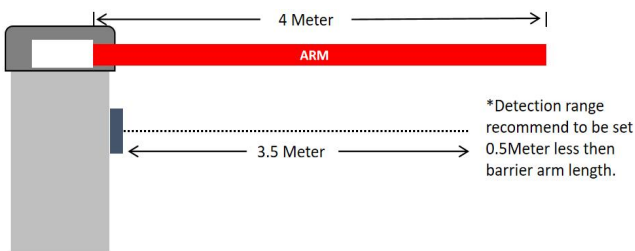
## Traffic Detector Parameter Setting

| Menu    | Parameter Setting              | Remark   | Default Value |
|---------|--------------------------------|--|---------------|
| - RANGE | Set maximum detection distance | The range distance increase by 0.5meters                     | 2.4 meters    |
| - SPEED | Detection sensitivity          | Time how long the sensitivity boost (only on fence arm mode) | 5 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 based on normal installation.

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

### 1) Detection distance



#### Setting instruction:

1. Press and hold the "MENU" button for 3 seconds.
2. The LED Display will enter first menu which is "RANGE".
3. To change the value, press "SET/SAVE" button
4. Press and hold the "SET/SAVE" button until the LED flashes then release the button to save the settings.
5. Once complete, LED Display will return to working mode.

**\*Note: Make sure detection range is 0.5 meter less then the actual arm length**

### 2) Working Mode

| Working Mode             | Sensitivity Very Low | Sensitivity Low | Sensitivity Normal | Sensitivity High | Sensitivity Very High |
|--------------------------|----------------------|-----------------|--------------------|------------------|-----------------------|
| <b>Straight Arm Mode</b> | 1.L<br>(Blinking L)  | 1.L             | 1.0 (Default)      | 1.H              | 1.H<br>(Blinking H)   |
| <b>Fence Mode</b>        | 2.L<br>(Blinking L)  | 2.L             | 2.0                | 2.H              | 2.H<br>(Blinking H)   |

#### Setting instruction:

1. Press and hold the "MENU" button for 3 seconds.
2. The LED Display will enter first menu which is "RANGE".
3. Press the "MENU" button again to switch to "MODE".
4. To change the value, press "SET/SAVE" button.
5. Press and hold the "SET/SAVE" button until the LED flashes then release the button to save the settings.

Once complete, LED Display will return to working mode.

**\*Note: Working mode is important and it depend on the barrier arm type. It is advisable to set to 1.0 (Default) to make BRD03 working at optimal performance.**

#### SPECIAL NOTE

- \* Make sure to use low noise power supply.
- \* BRD03 may not function correctly during bad weather (storm, heavy rain).
- \* Car approaching at angle more than 30°.
- \* Only install the BRD03 on flat surface and do not install it in front of uneven road surface.

For fence arm barrier settings and more info, please refer to full installation manual.

Scan the QR code for the full user manual.



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

© COPYRIGHT 2025. This documentation served as a reference only. It is subject to change without further notice. All the diagrams and information in this documentation may not be duplicated or modified in any form without the written approval from the management.