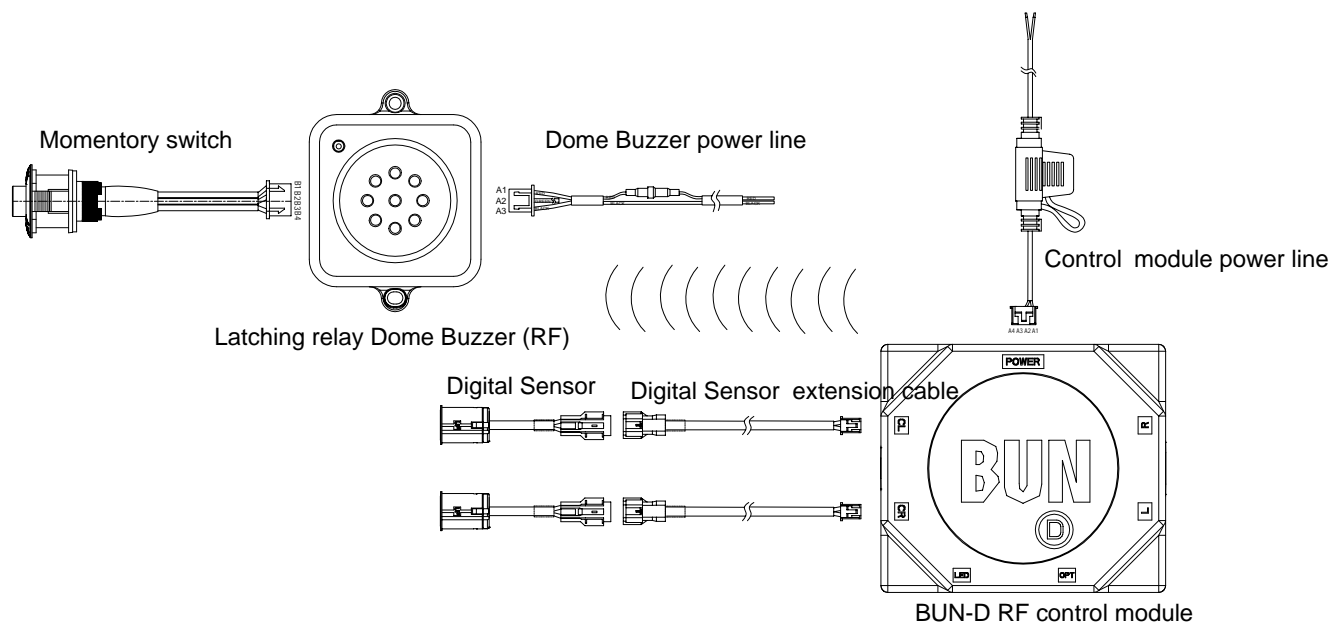


# BUN-D-RF User Manual

## 1、 Principle of system working

### 1.1 System connection



## 2、 System function

### 2.1 Self-diagnosis

two-Sensor system (SENSOR1、 SENSOR2 )

power on , the system starts its self-diagnosis.

a. No SENSOR : three beeps.

b. one SENSOR : two beeps.

c. two SENSOR : connect to CL、 CR or L、 R , one beep ;

Three beeps for other conditions.

### 2.2 Front system/Reverse system shift

Switch 1 OFF : Reverse system

Switch 1 ON : Front system

### 2.3 Corner SENSOR maximum detection distection shift

Switch 2 OFF : Reverse system , the maximum detection distance is 6ft ;

Front system , the maximum detection distance is 3ft.

Switch 2 ON : Reverse ssystem , The maximum detection distance is 3ft.

Front system. the maximum detection distance is 2ft.

## 2.4 Detection distance

### 2.4.1 Reverse System

Obstacle position to its nearest sensor	buzzer warning
7ft-4ft(middle SENSOR) 6ft-4ft (corner SENSOR)	intermittent beeps
4ft-2ft	Rapid beeps
within 2ft	Solid beep

### 2.4.2 Front System

Obstacle position to its nearest sensor	buzzer warning
3ft-2ft	intermittent beeps
2ft-1ft	Rapid beeps
within 1ft	solid beep

## 2.5 Buzzer volume adjust

Press the adjust switch, Buzzer beeps shortly, the volume from high to low, press again, the volume from low to high. The volume is stored everytime the switch is pressed. The last volume remains until power on again.

## 2.6 Fixity learning

To assure there is no false warning because of the fixity, the system should learn the environment. Learning method : after installing the sensor and control module , remove all obstacles in front or back of the vehicle. Power on, the system will warn if there is fixity. Then, power off. Redo "on-off" for four times. ("off" time < 3 seconds), if "off" is > 5 seconds, the learning process stops. No time limit for "on" time.) Wherein, the system enter learning status, BUZZER beeps for 2 seconds, the system stores the fixity into its memory.(the fixity distance< 1m). There will be no false warning because of the fixity.

## 2.7 Switch control function

Power on, LED of Momentary switch lights up , the system starts to work for 5 minutes, then shut off automatically.LED turns off.

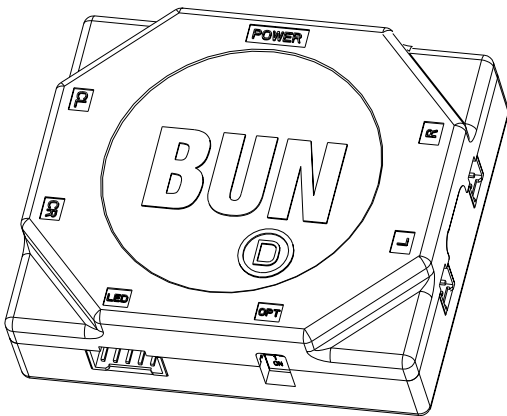
In operation time, press Momentary switch , the system shuts off at once. LED of Momentary switch turns off ;

When the system is in off status , press Momentary switch , the system restart and work for five minutes.

When LED flashes, it shows that sensor has some problems.

### 3、 System components

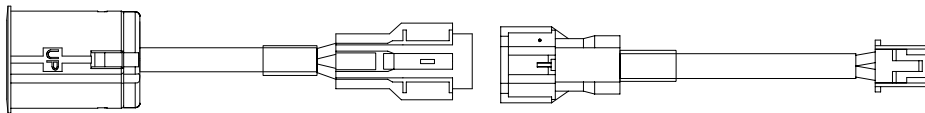
#### 3.1 Control module



Basic Specification

Item	Specification
1. Rating voltage	DC12V
2. Operating voltage	DC9.6V--16V
3. Consume current	MAX40mA/12V
4. Operating temperature	-30 ° C----+80 ° C
5. store temperature	-40 ° C----+85 ° C
6. output frequency	40KHz ? à 2KHz
7. detection range	0~2ft-4ft-7ft
8. Emiting frequency	433. 92MHZ ± 75KHZ

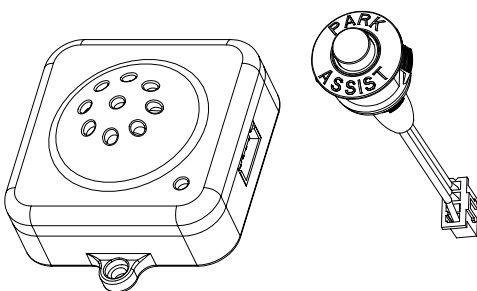
#### 3.2 Sensor and Sensor cable



Basic Specification

Item	Specification
1、 Operating temperature	-30 ° C----+80 ° C
2、 Store temperature	-40 ° C----+85 ° C
3、 input frequency	40KHz ± 2KHz
4、 Maximum detection distance	
5、 Detecting angle	Plane 100 ° ± 20 °
	Vertical 50 ° ± 10 °
6、 Detecting method	Ultrasonic 40KHz

#### 3.3 Lathing relay rf dome buzzer and momentary switch



Basic Specification

Item	Parameter
1. Rating voltage	12V
2. operating voltage range	DC 9. 6V--16V
3. Consume current	MAX40mA/12V
4. temperature	-30 ° C----+80 ° C
5. store temperature	-40 ° C----+85 ° C
6. volume	high : 85 ± 5 dB/10cm/12v low : 75 ± 5 dB/10cm/12v
7. Volume frequency	1600Hz

4 、 Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.