AUTOMATION INDIA
An ISO 9001 : 2015 Company
Mob. : 8917218270
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Presents

PROXIMITY WARNING SYSTEM

We are **committed** to Industrial
Safety of all Operations and
events in order to **protect**
its **employees** and **assets**

To establish ourselves as a leading organisation, working
to provide safety and monitoring devices for equipment as and assets

Table of contents

01
Our company

An organization without Boundaries

The zest of entrepreneurship led to the formation of this company. Our combined experience of more than 60 years in the Industrial, Construction, Mining, and Port equipment industry has paved an oblivious path to start our business venture in the same industry. Throughout our career we have gained hands-on knowledge about requirements of safety devices on stationary and mobile equipment.

We see good investments in various industries and further positive business for the stationary and mobile equipment industry.

Our Mission

We are here to offer maximum value to our Customers

We serve

- Material Handling and Warehouse solution
- Mining Sector
- Construction Sector
- Ports Sector
- Transportation
- Agriculture Sector

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TO BE A LEADER IN SAFETY & FUTURISTIC PRODUCTS, BY OFFERING RELIABLE TECHNOLOGY. WE AIM TO MEET EVOLVING INDUSTRY REQUIREMENTS.

We
ARE READY TO SERVE YOU
PLEASE DO VISIT OUR WEBSITE
TO KNOW MORE

02

COMMERCIAL VEHICLE COLLISION AVOIDANCE SYSTEM

Safety of Living and infra Asset is in our hand

Commercial vehicles in mining, quarrying, agriculture and construction area are big or even large Vehical Mobility Large vehicles with large blind zone, especially when the drivers' seats are in high level. In harsh environment, such as thick dust or darkness, it's more dangerous

Zone 5

Zone 4

Zone 3

Zone 2

Zone 1

Adjustable Detection Zone

In order reduce environment affection and blind zone, 77Ghz microwave radar technology, remind the drivers by visible and audible warning. It helps drivers to reduce accident caused by blind zone.
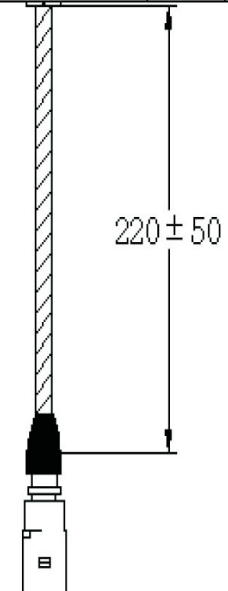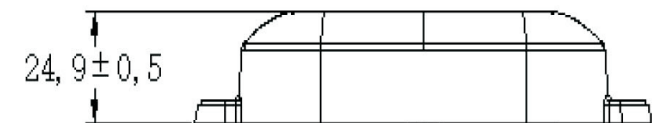
Part 01

Microwave sensor - radar

Qty 01

Name of Part
Microwave sensor

Appearance and size
Unit : MM

127,1±0,5

115±0,5

104,7±0,5

4-Ø5±0,5

3±0,5 40±0,5

24,9±0,5

220±50

Specification
Part 01

Microwave Radar / Sensor
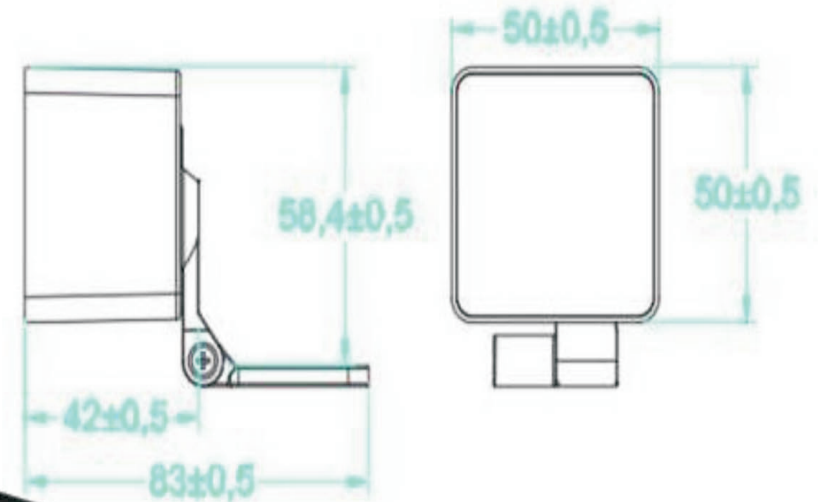
ITEM	Parameter	ITEM	Parameter
Rated working voltage (V)	12V OR 24V	Horizontal angle (°)	110 @ -3dB
Operating voltage range (V)	9-36V	Vertical angle (°)	30 @ -3dB
Working current	<200mA	Angle accuracy (°)	±0.5 @ 40°
Operating temperature range (℃)	-40 ~ 80	Angular resolution (°)	15
Storage temperature range (℃)	-40 ~ 85	Speed Range (km/h)	-36 ~ +36
Working frequency (GHz)	76-77	Speed Accuracy (km/h)	0.5
Transmit power (dBm)	12	Detectability (m)	30
Modulation mode	FMCW	Distance Accuracy (m)	±0.02
Antenna form	2TX, 4RX	Distance Resolution (m)	0.04
Traceable target number$_{MAX}$	31	Waterproof grade	IP69K

Part 02

Display Unit

Qty 01

Setup button

Bottom with 3M tape

2-Ø5,2±0,5

50±0,5

58,4±0,5

50±0,5

42±0,5

83±0,5
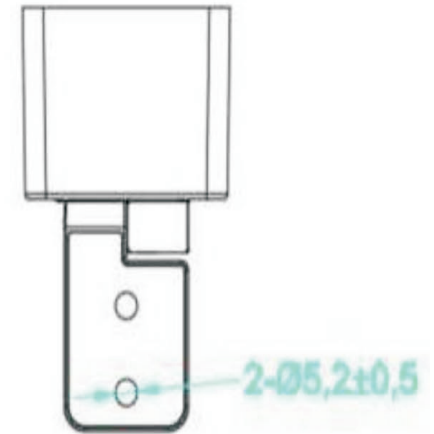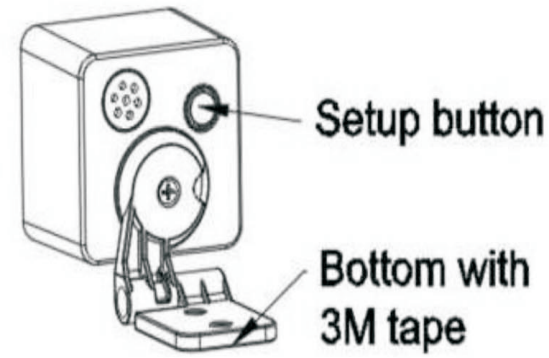
Appearance and size
Unit : MM

Specification
Part 02

Digital Display

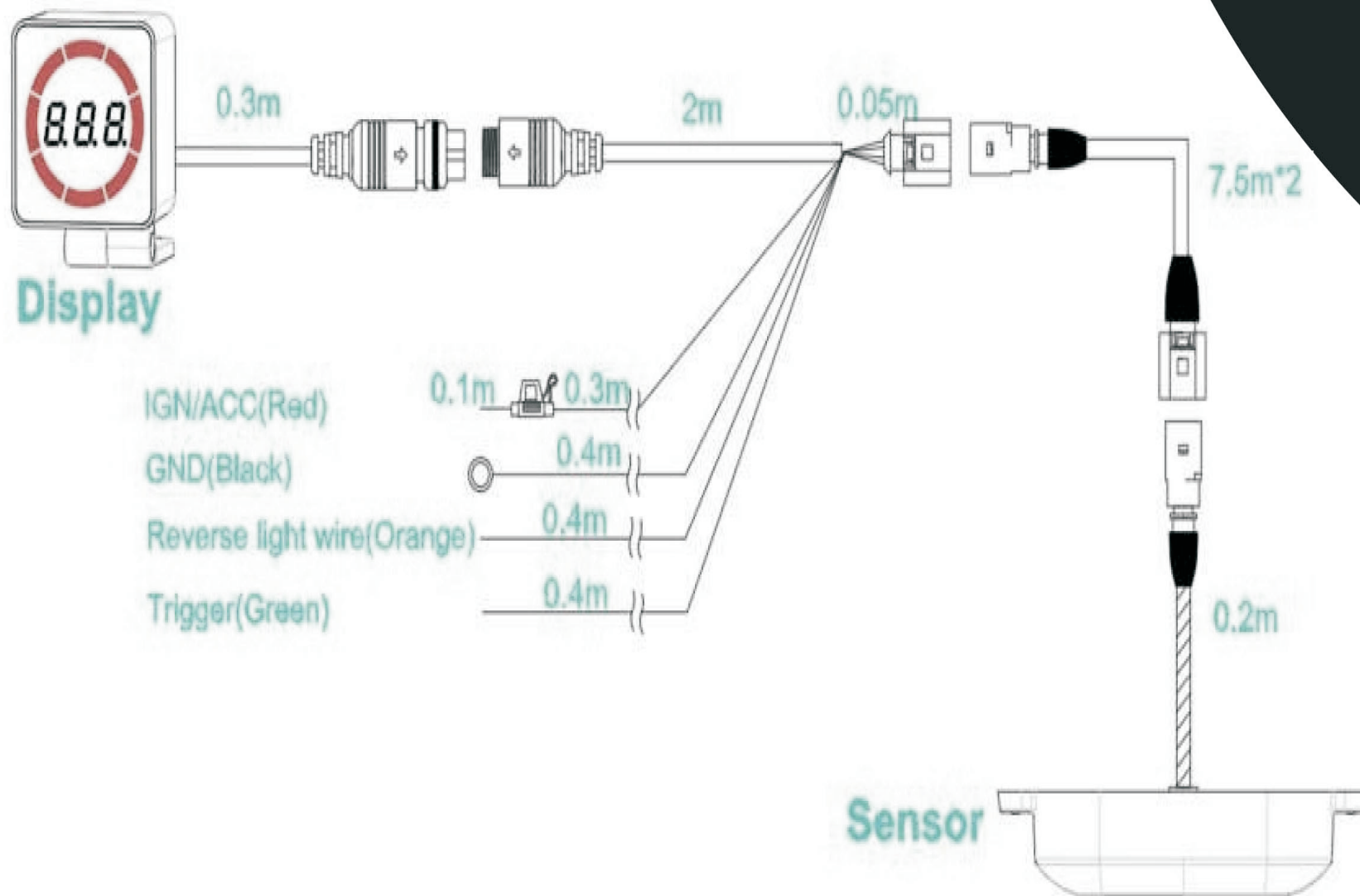| ITEM	Parameter
Rated working voltage（V）	12V
Operating voltage range（V）	9-16V
Working current	＜300mA@12V
Operating temperature range（℃）	-40 ~ 80
Storage temperature range（℃）	-40 ~ 85
Volume	≥80dB@12V/10cm

Part 03

Sensor installation bracket

Qty 01

Appearance and size
Unit : MM

101,7±0,5

50±0,5

62±0,5

139±0,5

97,3±0,5

R2,3±0,5

100±0,5

32±0,5

R2,8±0,5

∅5,5±0,5

Display Unit

Microwave
Radar / Sensor
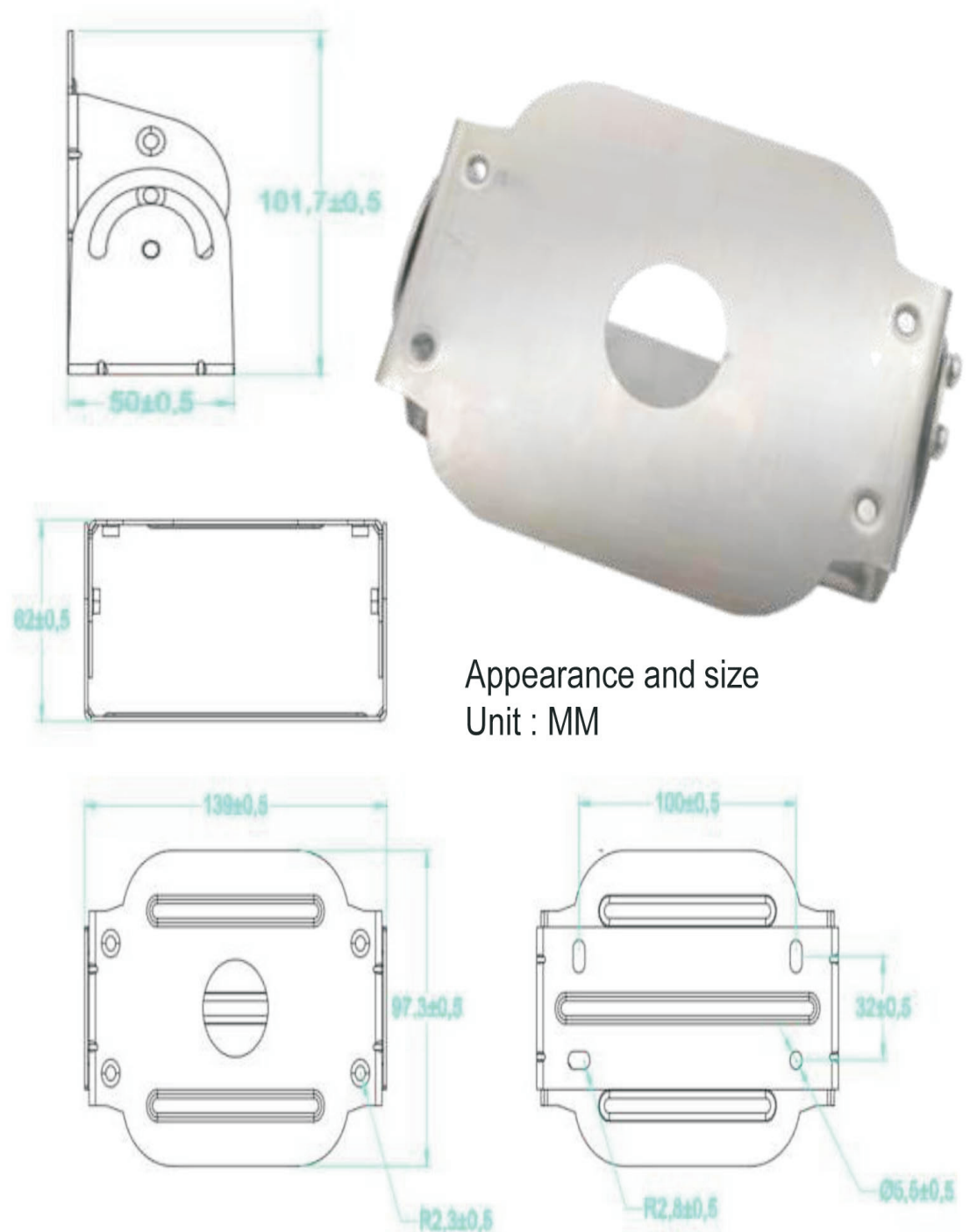
Installation
instruction

30.0

Adjust the installation angle according to different installation height

Activate Wi

Wiring Diagram

Display

0.3m

2m

0.05m

7.5m*2

0.2m

Sensor

IGN/ACC(Red) 0.1m 0.3m

GND(Black) 0.4m

Reverse light wire(Orange) 0.4m

Trigger(Green) 0.4m

Functioning
Self-diagnosis

When the system IGN is on and the reverse gear is engaged in, the system starts self-diagnosis, the result showed

No.	Self-diagnosis result	LED bar	Buzzer built-in
1	Pass		Beep once
2	Fail	ERROR	Beep twice

Functioning
Basic function

After self-diagnosis, the object distance information will be showed on the display, the information as shown

Note: The warning sections showed above when the detection distance was set to 10 mt.

Item No.	Object distance	Distance showing	Color bar showing	Beep frequency
1	No detection	— —	No. showing	No beep
2	8.1 - 10.0m	8.1-10.0	Green LED bar	
3	6.1 - 8.0m	6.1 - 8.0	Yellowish green LED bar	1Hz-8Hz Stepless warning beep
4	4.1 - 6.0m	4.1 - 6.0	Yellow LED bar	
5	2.1 - 4.0m	2.1 - 4.0	Orange LED bar	
6	1.26-2.0m	1.26-2.0	Red LED bar	
7	≤1.25m	-P-		Constant beep