

# Radar Proximity Sensor Single & Dual 10M & 30M



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# About Us

SR Vision Enterprises delivers DGMS-compliant, technology-driven safety solutions for mining, construction, ports, and warehouses—enhancing safety, efficiency, and operational excellence even in extreme environments.

## Our Vision

To deliver maximum customer value through reliable and innovative safety solutions.

## Our Mission

To lead in futuristic safety products that set new benchmarks in protection and performance.



# About Product



## Radar Proximity Sensor

Commercial vehicles used in **mining, quarrying, agriculture, and construction** are typically large in size and operate with **significant blind zones**, especially when the driver's cabin is positioned at a higher level. These blind spots become even more dangerous under **harsh operating conditions** such as **thick dust, fog, rain, or low-light environments**, increasing the risk of accidents.

To effectively reduce the impact of blind zones and environmental limitations, this **Radar Proximity Sensor** utilizes advanced **77 GHz microwave radar technology**. The system continuously monitors the vehicle's front and/or rear area and provides **real-time visual and audible warnings** to alert the driver of nearby obstacles or personnel.

By detecting objects reliably regardless of dust, darkness, or adverse weather, the radar sensor significantly enhances operator awareness and helps prevent accidents caused by unseen hazards.

The product is available in **Single Sensor** and **Dual Sensor** configurations:

- **Single Sensor:** Designed for monitoring either the **front or rear** of the vehicle.
- **Dual Sensor:** Provides simultaneous monitoring of **both front and rear**, offering comprehensive blind-spot protection.

This radar proximity sensor is an ideal safety solution for heavy-duty vehicles operating in demanding industrial environments, improving operational safety and reducing collision risks.



Adjustable Detection Zone

# Specification's

## 01 – Microwave Radar Sensor (77Ghz) For Front & Back

ITEM	PARAMETER
Rated working voltage (V)	12V or 24V
Operating Voltage range (V)	9-36V
Working current	<200mA
Operating temperature range (°C)	-40~80
Storage temperature range (°C)	-40~85
Working frequency (GHz)	76-77
Transmit power (dBm)	23
Modulation Mode	FMCW
Antenna form	2TX , 4RX
Traceable target number <sub>MAX</sub>	31
Horizontal angle (°)	110-150@-3dB
Vertical angle (°)	30@-3dB
Angle accuracy (°)	± 0.5@40°

ITEM	PARAMETER
Angular resolution (°)	15
Speed Range (km/h)	-36~+36
Speed Accuracy (km/h)	0.5
Detectability (m)	10
Distance Accuracy (m)	± 0.02
Distance resolution (m)	0.04
Waterproof grade	IP69K

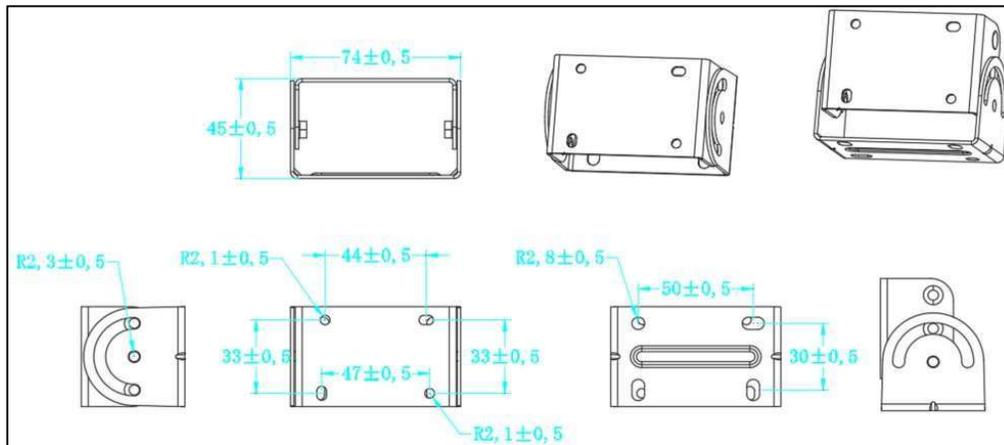
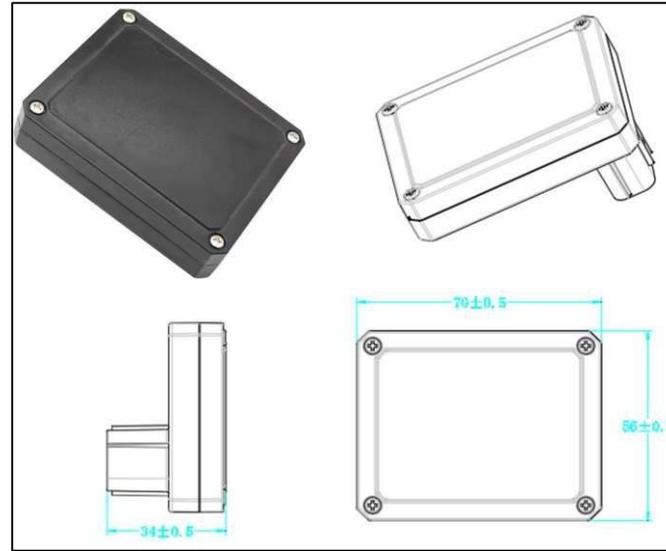
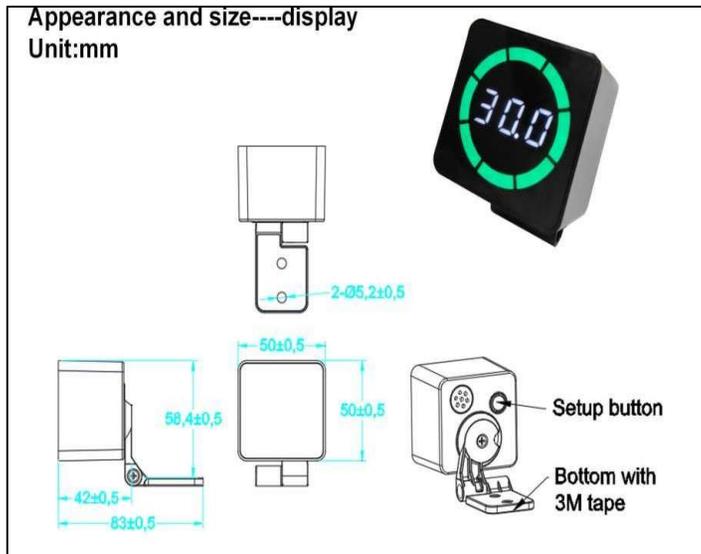


## 02 – Display

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



## 02 – Appearance and Size's



# Installation Instruction



## Millimetre Wave Radar

The system uses **millimetre wave radar technology** to transmit and receive signals via an antenna. It accurately calculates the **distance, speed, angle, and movement direction** of surrounding objects in real time.

Designed for **reversing and parking safety**, it ensures reliable obstacle detection and is widely used in **trucks, construction machinery, and all HEMM vehicles**, even in harsh working environments.

# Basic Function

SR. No	Object Distance	Distance Showing	Colour Bar Showing	Beep Frequency
1	>30.0 M (>10.0 M)	-----	No Showing	No Beep
2	24.0 - 30.0 M (8.1 – 10.0 M)	24.0 - 30.0 M (8.1 – 10.0 M)	 Blink	1Hz
3	18.0 - 23.9 M (6.1 – 8.0 M)	18.0 - 23.9 M (6.1 – 8.0 M)	 Blink	2Hz
4	12.0 - 17.9 M (4.1 – 6.0 M)	12.0 - 17.9 M (4.1 – 6.0 M)	 Blink	4Hz
5	6.0 - 11.9 M (2.1 – 4.0 M)	6.0 - 11.9 M (2.1 – 4.0 M)	 Blink	8Hz
6	0.5 - 5.9 M (1.26 – 2.0 M)	0.5 - 5.9 M (1.26 – 2.0 M)	 Keep On	Constant Beep
7	<0.5 M (<1.25 M)	<b>STOP</b> <b>-P-</b>		

The system divides the detection range into **five warning stages**.

**Note:** The warning zones shown are based on a **30-meter and 10-meter detection distance setting**.

**10-meter detection is in Brackets ( )**