

# Blind Spot Sensors

## Radar Blind Spot Detection System - 77GHz

RVS-131

Blind Spots? We don't see any! Bigger vehicles mean bigger risks. Traditional rear-mounted blind spot detection systems fall short in protecting your entire vehicle on the road. RVS has changed the game with this upgraded 77GHz radar blind spot detection system, with its advanced sensors strategically positioned at the front of your vehicle. The system features expansive 230FT detection range, with 45FT Warning Distance and 45-230FT Sensing Distance, ensuring that any moving obstacle- whether it be a car, or cyclist is identified with more than enough time to avoid it. Visual and aural alerts ensure drivers are always aware of their surroundings, giving you peace of mind that your fleet is in good hands.



### Unparalleled Detection Range

Up to 230\* Feet Detection Range with 77Hz Radar Sensors: 45FT Warning Zone, and up to 230 FT for fast approaching vehicles identification.



### Visual + Aural Alerts

Warning button in A-pillar lights up and speaker sets off an alert when an object or vehicle is detected.



### Robust Build

These commercial-grade sensors are waterproof with an IP67 rating.



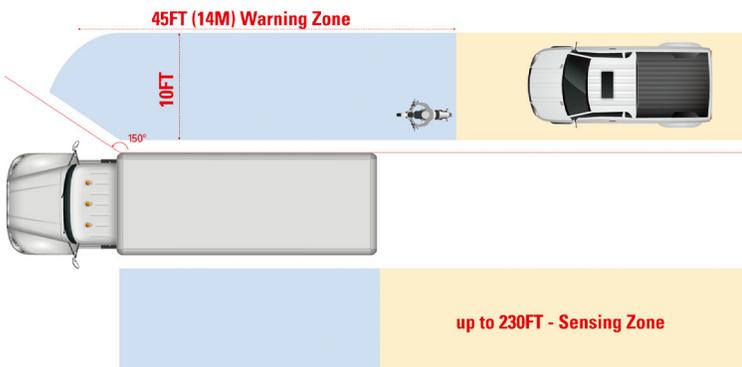
### Easy Installation

The RVS-131 is easily surface-mounted externally to the side of your vehicle.



### DOT upgrades

Compliant with SAE J1455 (Electronic design for heavy-duty vehicles) and ISO 17387:2008 (Lane change decision aid systems performance requirements).



### SENSOR SPECIFICATION

<b>Detection Target Type</b>	accelerating/decelerating vehicles, stationary vehicles (while moving at speed)
<b>Working Mode</b>	FMCW (CS + MIMO)
<b>Operating Frequency Range</b>	76GHz ~ 77GHz
<b>EIRP (Effective Radiated Power)</b>	≤ 30dBm
<b>Distance Detection Range</b>	up to 230FT (70m), 45FT Warning Distance
<b>Horizontal Detection Angle</b>	± 75°
<b>Vertical Detection Angle</b>	± 10°
<b>Distance Measurement Accuracy</b>	± 4 inch (0.1m)
<b>Relative Speed Detection Range</b>	up to 125 mph (-125mph~ +125mph)
<b>Relative Speed Measurement Accuracy</b>	± 0.010 M/h (0.15km/h)
<b>Relative Velocity Resolution</b>	0.30 M/h (0.5km/h)
<b>Angle Measurement Accuracy</b>	± 0.4°
<b>Angular Resolution</b>	4°
<b>Maximum Number Of Target Tracks</b>	128
<b>Data Output Refresh Rate</b>	≤ 50ms
<b>Rated Voltage</b>	12 - 36V
<b>Power Consumption</b>	0.72W
<b>Working Temperature</b>	-40 ~ +85°C
<b>Storage Temperature</b>	-40 ~ +90°C
<b>Weight</b>	0.917oz (26g)
<b>Water Resistance</b>	IP67

\*3.5 - 45ft - Warning Zone. When the objects are detected LED Button blinks and Buzzer beeps.

45 - 230ft - The sensing distance reflects the Time-to-Collision (TTC). When the following vehicle rapidly approaches the vehicle with installed sensors, the system initiates a warning if the calculated time to collision is less than 3.5 seconds. For instance, if the vehicle is traveling at 30 km/h and the vehicle behind is approaching at 60 km/h, with a speed difference of 30 km/h (approximately 8.33 m/s), the system calculates the warning distance using the formula Distance = Speed \* Time. Therefore, the warning distance is approximately 8.33 \* 3.5 = 29.155 meters.



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