Park Assist Radar Sensor

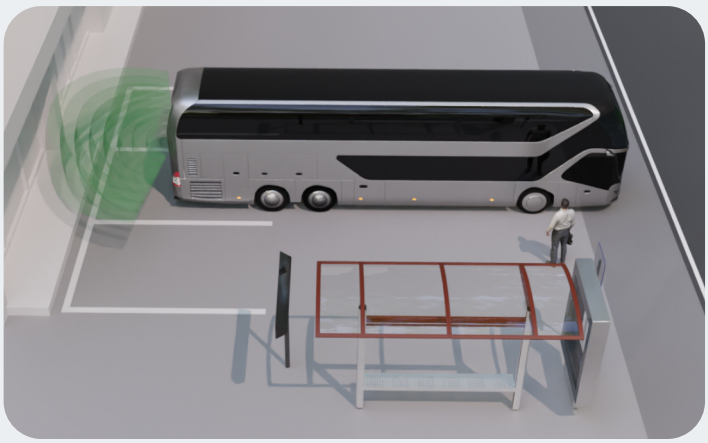
Safer Reversing • Compact • ECE R158 Compatible

Saykal Park Assist Radar Sensor is a 60 GHz short-range radar unit developed for behind-bumper integration in modern passenger and commercial vehicles. With its 3 TX / 4 RX MIMO antenna configuration, configurable azimuth FOV up to 140° and radar scanning zone up to 10 m, the sensor provides precise object detection and tracking for reversing, parking and rear-area monitoring applications. Supported by self-calibration, built-in fault diagnostics and CAN / FDCAN communication, it delivers a reliable ECE R158 / GSR compliant sensing architecture for safer low-speed maneuvers.

ECE R158	Blind Spot Tracking	Configurable FOV	Park Assist Range	Azimuth Accuracy
Compatible	up to 7m	up to 180°	up to 2m	±3°

Application Examples

Radar-Based Rear Awareness for Safer Reversing



1 Parking & Reversing Assistance

Detects obstacles and vulnerable road users behind the vehicle during reversing and low-speed parking maneuvers, helping drivers avoid collisions in complex urban environments.

2 Loading Dock & Service Area Safety

Assists drivers during reversing toward loading docks, ramps and service areas by detecting nearby obstacles and helping reduce the risk of rear-end impacts.

3 Rear Blind Spot Monitoring

Tracks objects and vehicles up to 7 m behind the vehicle, supporting awareness in rear-corner blind zones that may be missed by mirrors.

4 Vulnerable Road User Protection

Enhances protection for pedestrians, cyclists and other vulnerable road users by detecting potential risks around the rear side of the vehicle before and during reversing.

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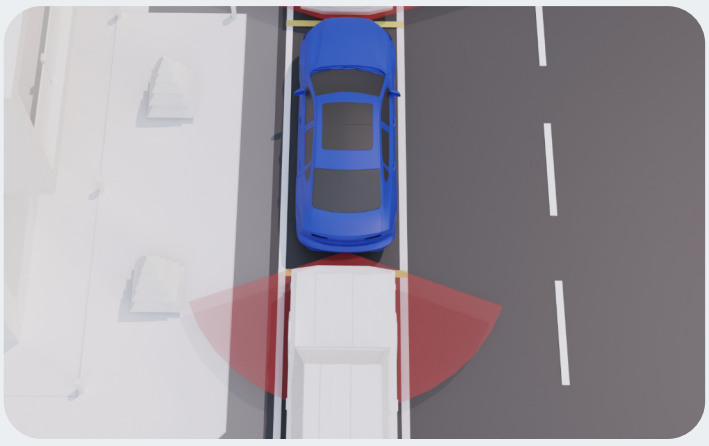

1 Parking & Reversing Assistance

Detects obstacles and vulnerable road users behind the vehicle during reversing and low-speed parking maneuvers, helping drivers avoid collisions in complex urban environments.

2 Rear Cross Traffic Alert

Analyzes object position and direction of motion to detect approaching targets from the left or right side during reverse maneuvers.

3 Rear Blind Spot Monitoring

Tracks objects and vehicles up to 7 m behind the vehicle, supporting awareness in rear-corner blind zones that may be missed by mirrors.

4 Vulnerable Road User Protection

Enhances protection for pedestrians, cyclists and other vulnerable road users by detecting potential risks around the rear side of the vehicle before and during reversing.

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