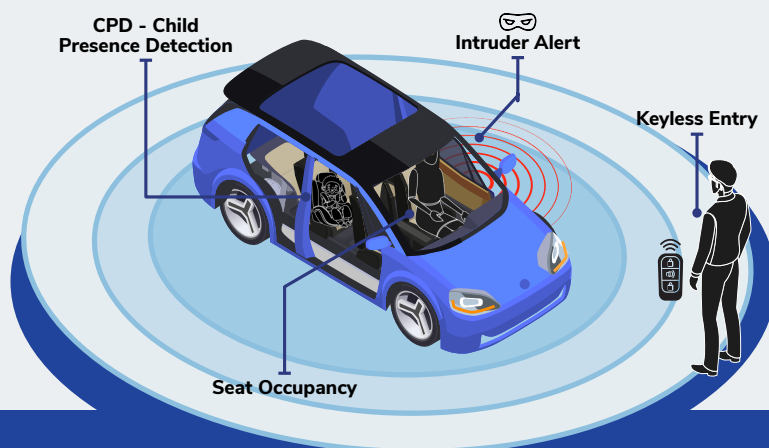


Ultra-Wideband Sensor (UWB)

Innovative • Safe • Reliable

Saykal UWB Radar Sensor is a secure and high-precision sensing solution designed to enhance in-cabin safety and vehicle access control. With centimeter-level positioning accuracy and advanced signal protection, it helps prevent unauthorized access and relay attack attempts. Built for modern automotive platforms, Saykal UWB Radar Sensor delivers stable, interference-resistant detection you can trust in every driving and access scenario.



Multi-Purpose
UWB

CCC Digital Key &
FiRa
Compliant

Global Channel 9
Support
IEEE 802.15.4z

Vital Sign
Monitoring

Smart Zone
Management

Features



Child Presence (CPD)

Detects micro-movements and breathing inside the cabin to identify children or pets left in the vehicle and triggers alerts to help prevent critical situations.



Intruder Alert

Monitors the vehicle interior when locked and detects unauthorized movement, activating instant alerts against intrusion attempts.



Seat Occupancy

Tracks seat occupancy and passenger position in real time to support accurate airbag and seat belt system operation.



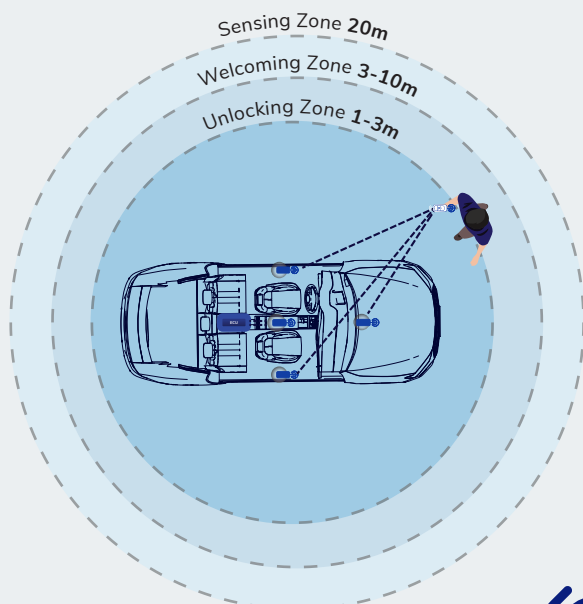
Keyless Entry

Enables secure keyless access by precisely measuring the driver's distance and direction, automatically locking or unlocking the doors.



Kick Sensor

Allows hands-free trunk opening with a simple foot gesture, providing easy and secure access when your hands are full.



Powered by **high-precision UWB anchors** integrated into the center console and B-pillars, the system enables secure vehicle access using **Time-of-Flight technology**. It is fully protected against relay attacks by accurately verifying the key's true position.

The system wakes up at a distance of up to 20 meters, starts the welcome function between 3–10 meters, and automatically unlocks the doors at 1–3 meters with centimeter-level accuracy. This hardware-based precision delivers a smooth user experience while meeting the highest security standards.



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