PARKING SENSOR

ITS FUNCTION

The parking aid sensor is an electronic device designed to assist the driver during parking manoeuvres and low-speed journeys. Its main role is **to detect obstacles around the vehicle** to avoid collisions and **facilitate manoeuvring in tight spaces**.

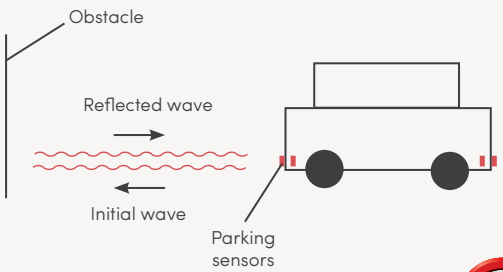
GOOD TO KNOW

Parking sensors are generally **positioned at the front and/or rear of the vehicle**:

- **At the front:** integrated into the front bumper to detect approaching obstacles at low speeds.
- **At the rear:** located on the rear bumper, mainly used for reverse parking.
- **On the sides:** in some cases, additional sensors are placed on the front or rear wings to improve detection of lateral obstacles.

ILLUSTRATION

By measuring the time taken for the wave to return to the sensor that the distance between the car and the obstacle is estimated.



Ultrasonic technology in action

TECHNOLOGIES

Several technologies are used on the market: ultrasonic sensors, radar sensors and LiDAR (laser) cameras/sensors.

Ultrasonic technology remains the most widely used, due to its affordability, reliability, ease of integration and compatibility with different vehicle models.

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