



CES 2021

Mobility is the Heartbeat of Life
Ultrasonic Parking Sensor

www.continental-automotive.com

Ultrasonic Parking Sensor

Passive Safety and Sensorics

- › Continental Ultrasonic Sensor (CUS) is completing Continental's Automated Driving/Parking (AD/P) product portfolio.
- › CUS for Parking, is a sensor dedicated to be used in low speed maneuvering situations (Speed < 10 km/hour). It measures the time of flight to an object (Echo-Localization principle).
- › The sensor sends an ultrasound echo (wave) and receives a signal (wave reflection by an object) after a certain period of time. The time of flight is converted to a measured distance. Software in the ECU processes these measurements and determines the appropriate actions to take.



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Benefits & Features

- › Easy and precise parking
- › Stress free vehicle maneuverability
- › 360-degree car protection
- › Environment visualization and monitoring
- › Compliance with major OEM requirements
- › Coding among sensors and Multi measurement
- › Self diagnostics
- › Signal filtering
- › ASIL-B according to ISO 26262
- › Paintable

Technical Information

- › Supply voltage range: +9V ...+16V
- › Operating temp range: -40 ... +85°C
- › IP classification: IP6K9K
- › Diameter: 15.5 mm
- › Frequency: 52 KHz
- › Car connectivity P2P or bus
- › Car communication DSI3 interface
- › 3 pins per sensor group
- › Detection ranges target: <10 cm – up to 600 cm
- › Opening angles: 120° x 60°



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CUS – Advantages

- › **Dynamic range mode**
 - › Enabling the combination of Parking Distance Control mode (PDC) and Parking Slot Detection mode (PLV) in one design type. This leads to the reduction of design variance in the vehicle architecture.
- › **Higher signal robustness against disturbance**
 - › Echo source identification is reliable and robust (identifying own transmitted signals)
- › **Continuous** signal transmission (sensors fire parallel to another) supporting higher data rates vs. **sequential** signal transmission with competing sensor generation
 - › Improvements compared to competing sensors
 - › Supports automated driving/safety levels with higher maximum operation speed for emergency braking



More Information

Get in touch with us!



More information:

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