



SENSOR  
TECHNOLOGY

## Digital Ultrasonic Sensor

### Applications

- Intelligent parking systems
- Blind spot detection systems
- Obstacle avoidance systems



# Digital Ultrasonic Sensor

The Digital Ultrasonic Sensor uses the ultrasonic time-of-flight principle to accurately measure the distance between the sensor and the obstacle. The sensor outputs digital distance signal and self-test information with various communication protocols such as LIN bus and 2/3-wire IO, which makes it suitable for a variety of intelligent parking systems.

This product features excellent weatherability, high stability and anti-interference ability. It can be used for intelligent parking systems, blind spot detection systems, and the obstacle avoidance systems for autonomous vehicles.

## Features

- Digital signal output
- High accuracy and reliability
- Built-in circuit which matches the self-developed transducer

Item	APA Sensor	UPA Sensor	BSD Sensor
Model	VU0001/VU0005	VU0002/VU0004	VU0008
Frequency	48±1.0KHz	55.5±1.0KHz	48±1.0KHz
Detection Angle	Horizontal: 60° Vertical: 60°	Horizontal: 90° Vertical: 45°	Horizontal: 120° Vertical: 60°
Detection Range	300~5000mm	250~2500mm	250~3500mm
Accuracy	≤± 50mm	≤± 50mm	≤± 50mm
Operating Input Voltage	12V(9~16V)	12V(9~16V)	12V(9~16V)
Communication Protocol	LIN/ IO	LIN/ IO	LIN/ IO
Protection Class	IP69	IP69	IP69

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