

# Ultrasonic sensor

Surround sensor for the calculation of distances to obstacles and to monitor space when parking and maneuvering

For comfortable and automated parking as well as for emergency braking functions at low speeds



## optimum support

Basis for parking and maneuvering systems as well as automated parking

## state-of-the-art

in terms of robustness, reaction time and object detection

## most sensitive

ultrasonic system in the market due to very reliable object detection

- ▶ Benchmark in robustness against dirt, ice, environmental conditions and other ultrasonic systems
- ▶ Most sensitive ultrasonic system in the market (e. g. detection of low reflecting objects)
- ▶ Faster reaction time (first-time detection), therefore fast reaction on suddenly appearing obstacles (e. g. pedestrians, changing scenes)



### TECHNICAL CHARACTERISTICS

Min. range	15 cm (Ø 7.5 cm standard pole)
Max. range	5.5 m (Ø 7.5 cm standard pole)
Object presence detection	3 – 15 cm
Detection zone	± 70° @ 35 dB horizontal field of view
Opening angles	± 35° @ 35 dB vertical field of view
Safety level	up to ASIL-B
Frequency	Frequency modulation
Membrane diameter	15.5 mm
Housing diameter	23 mm
Dimensions	44 mm (length) x 26 mm (width)
Weight	~ 14 g
Operating temperature	- 40° to + 85° C
Current consumption	≤ 500 mA (transmit mode) 7 mA (receive mode)
Protection class	IP64K