



# Acoustic Vehicle Alerting System (AVAS)

## General description

Our Acoustic Vehicle Alerting System (AVAS) is an element to electrical vehicles that artificially generates a sound proportional to parameters such as velocity, gas pedal position and gear switch. The system increases the pedestrians' safety by alerting them about silently approaching vehicles. According to several government regulations from 2019 all new electrical vehicles should be equipped with an AVAS system.

## Highlights

- › Operating voltage 12V (9V - 16V)
- › Operating temp.: -40°C to +85°C
- › Integrated loudspeaker (One-Box Solution)
- › Class D integrated amplifier 25W
- › CAN-FD interface
- › 2 Mb Flash (approx. 1.5MB available for WAV files)
- › Protection class: IP67 (optionally IP6K9K)
- › Weight incl. speaker: approx. 385g

## Dimensions

- › approx. 98 x 98 x 72mm incl. speaker
- › approx. 98 x 98 x 30mm excl. speaker



## Customer Benefits

- › Meets the requirements of UN R138.01 (EU, China) and FMVSS 141 (USA) and fulfils automotive standards
- › Modular approach to cover low-end till high-end requirements
- › Internal or external loudspeaker or actuator
- › Low system weight starting at 200g (incl. external actuator)

## Minimum setup with external actuator

- › As alternative to a loudspeaker the sound can be generated using one of our exciters which is directly attached to a structural element of the vehicle.
- › CES fullrange exciter
- › Dimensions ECU: approx. 98 x 98 x 30mm
- › System weight: approx. 200g incl actuator

