

## Fast Facts

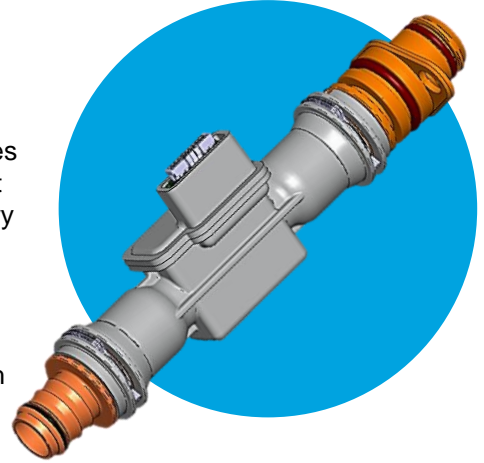
---

### Water detection sensor

#### Detection of water in an oil cooled battery

For vehicles with a high demand on battery performance, the batteries can be tempered with a special oil. The presence of a critical amount of water inside the battery must be avoided. Since water in the battery lead to corrosion and thus negatively affects the service life.

The water detection sensor is part of a sensor set consisting of two level sensors and a temperature sensor. With an additional on-board  $\mu$ -controller, the battery sensor set can communicate in real time with the battery management system and thus decisively extend the service life of the battery.



#### Characteristics

- Operation temperature: -30°C / +65°C
- Power supply 12 V by BMS (Battery Management System board)
- Current consumption: approx. 40 mA only for water detection sensor
- Water detection: approx. >2%
- Fluid speed through sensor: up to 35 l/min.
- Output: different parameters by CAN Interface
- FUSI: ASIL A

#### CAN parameters

- Water detection: yes / no
- Oil level: oil / air
- Oil temperature
- Failure modes: shortcut, open, failure band