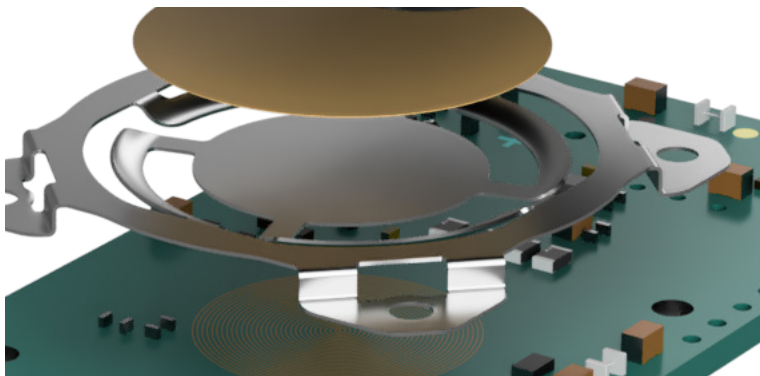


CLEAR VISION Sensor

level, temperature and ethanol percentage of washer fluid

Autonomous or partly autonomous driving is possible only if all assistance systems are working flawlessly. Beyond this, vision systems require always a clear view. Especially in the case of poor weather conditions, this can only be ensured if there is sufficient fluid in the corresponding cleaning system and if the fluid does not freeze during the journey. The AST sensors measure the fluid level and the temperature in the fluid tank as well as the antifreeze (ethanol) concentration. The sensor is qualified according to ASIL B.

The measurement of the ethanol content of the washing liquid is carried out by measuring the thermal conductivity of the liquid with the patent-pending TCS process.



The filling level is determined by the hydrostatic pressure, which is measured with an inductive pressure sensor. The pressure sensing element is a special flat spring interacting with a spiral coil on the PCB.



- Precise measurement of ethanol percentage
- Continuous filling level measurement
- Temperature measurement of the washer fluid
- Welding geometry for integration into tank

Technical data:

Fluid level measuring range:	0 mm to 1000 mm
Ethanol percentage in water	0 to 100 vol %
Tank temperature measuring range:	-50°C to +80°C
Fluid level accuracy:	± 4% fullscale
Ethanol percentage accuracy	± 3 vol %
Temperature measurement precision:	± 1°C
Geometry	customer specific
Interface	LIN / CAN / SENT 0 to 5 V analog ...

AST International is a leading provider of customized sensors and controls for automotive, domestic appliance, and industrial applications. Our products stand out on account of their cutting-edge sensor technology, best quality and reliability.

AST International GmbH

Baerental 26
75365 Calw/ Germany

✉ sales@ast-international.com



AST INTERNATIONAL
ADVANCED SENSOR TECHNOLOGIES

www.ast-international.com