POSITION / DISPLACEMENT Sensor

3D-Hall or inductive technology

AST's linear displacement sensors with inductive or 3D-Hall ASIC-based measuring principle determine the position of mechanical components contactless and without wear. The so-called target is attached to the movable part of the mechanical system and interacts without contact with the stationary sensor system via magnetic or inductive mechanisms. The sensor and target are each encapsulated against environmental influences, enabling operation in the harshest environments. The sensor is qualified according ASIL B.



 Contactless position measurement

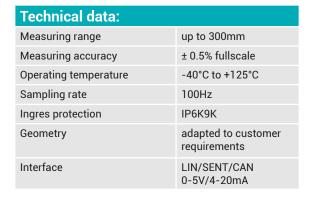
- Wear free system
- Long term stability
- Operation in harshest environment
- Fast sampling rate
- Customized housing
- ASIL B qualified

allow a very precise position detection.	

The inductive sensing technology is based on a printed circuit coil arrangement and a passive target made out of a conductive material. The eddy currents induced in the con-

ductive target give a retroactive signal into the coils and

The 3D-Hall Technology is based on an ASIC owned by AST. The ASIC interacts with a small permanent magnet as a target to determine the relative postion of these two components.



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.



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