NEW | Three-Part Housing for Torque Sensor

Product Information

The unique three-part housing for SAW sensors, co-developed by SCHOTT Electronic Packaging and Transense Technologies plc, enables for the first time torque sensors that allow for exact metering of driving power, shifting operations, and steering movements while remaining hermetic over its operating lifetime.

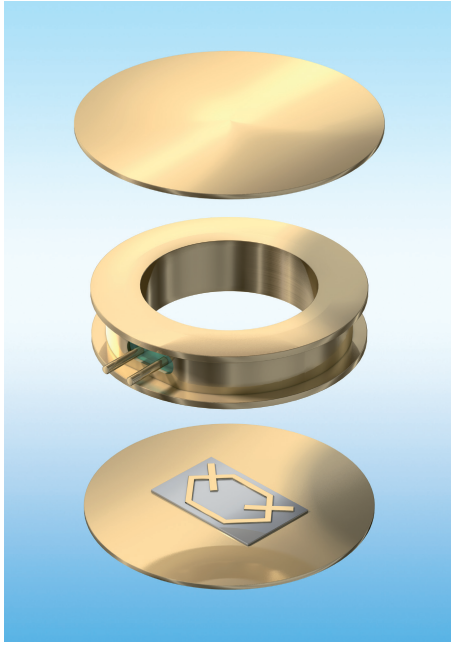
Precisely functioning torque sensors increase driving comfort and reduce fuel consumption.

Product Description

- Unique hermetic housing that combines a metal with high elastic limit for transmitting the torque to the sensor with an annealed metal suitable for hermetic glass-fritted electrical feedthroughs.
- Base: Round steel disc consisting of stainless steel. Metal remains elastic, even when subjected to high stresses, resulting into linear strain transfer to torque sensor bonded to its inner surface.
- Ring: Annealed stainless steel component. Contains two connector pins fritted inside by glass. Proven glass to metal seal hermeticity over lifetime.
- Cover: The housing is covered by a stainless steel lid, e.g. using laser welding technology.

Advantages

- Sensor package remains hermetically sealed due to proven glass-to-metal sealing technology
- Specifically designed to withstand harsh environments
- High volume manufacturing
- Enables batteryless, wireless operation



Preliminary Specifications on Housing	
Platform	GTMS Housing
Outlines	Custom outline
Hermeticity	< 10E–8 mbar l/s
Temp. range	– 40 °C to + 150 °C

Sensor Description
Housing for torque sensors basing on SAW technology
Batteryless Wireless operation
Torque sensor applications: Automatic transmission NVH, Engine monitoring, Traction control / Torque vectoring, Electrical power assisted steering, Marine propulsion

transense technologies plc

For more information on torque sensors: www.transense.co.uk

For more information on hermetic packaging:

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