

## Product Brief

# Dual-Sensor Package

## Two Sensors in One SMD Package



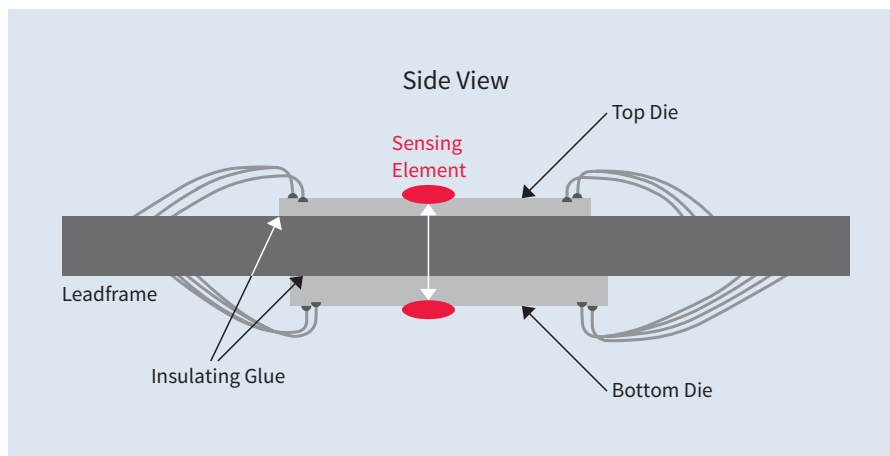
The new SMD package (PG-TDSO) includes two independent sensors with separate power supply and separate signal outputs. Due to special mounting technology, Infineon is able to keep dual-sensor package size very small to enable compact PCB layouts and small magnet sizes.

Infineon offers linear Hall sensors or angle sensors in the PG-TDSO package. The two sensors in one package offer inherent redundancy. Sensor redundancy is of particular interest for new generation EPS steering systems with increased ISO 26262 requirements and other safety critical applications. All sensors are automotive qualified.

Most products are also available as single-sensor solution with only one sensor.

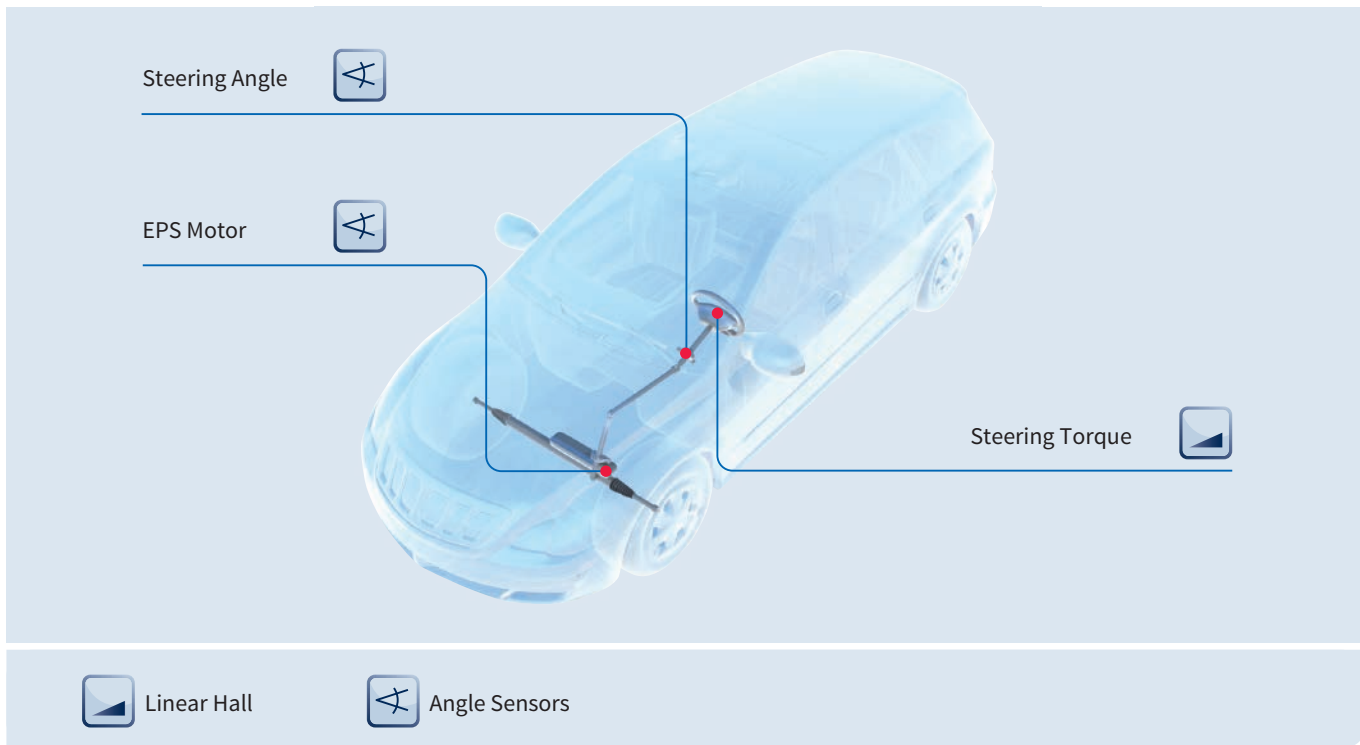
### Features

- Two sensors in one package
- Separate power supply and signal output
- Automotive qualified
- Temperature range from -40°C to +125°C
- Outstanding quality
- Linear Hall or angle sensor available
- Single-sensor versions available
- 16-pin and 8-pin versions available



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### Linear Halls

Product	Interface	Dual-/Single-Sensor Available	Package	Order Code
TLE4997A8D	Analog	yes/yes	PG-TDSO-8	SP000902760
TLE4998P8D	PWM	yes/yes	PG-TDSO-8	SP000902776
TLE4998S8D	SENT	yes/yes	PG-TDSO-8	SP000902784
TLE4998C8D	SPC	yes/yes	PG-TDSO-8	SP000902768

### Angle Sensors

Product	Interface	Technology	Description	Package	Order Code
TLE5309D	Analog sin/cos	GMR and AMR Dual-Sensor	3.3V with temperature compensation	PG-TDSO-16	SP001191262
TLE5309D	Analog sin/cos	GMR and AMR Dual-Sensor	5.0V with temperature compensation	PG-TDSO-16	SP001191266
TLE5012BD E1200	IIF Standard, 360° angle	GMR Dual-Sensor	3.3/5.0V with temperature compensation	PG-TDSO-16	SP001205296
TLE5012BD E9200	SPC, 360° angle	GMR Dual-Sensor	3.3/5.0V with temperature compensation	PG-TDSO-16	SP001205300

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