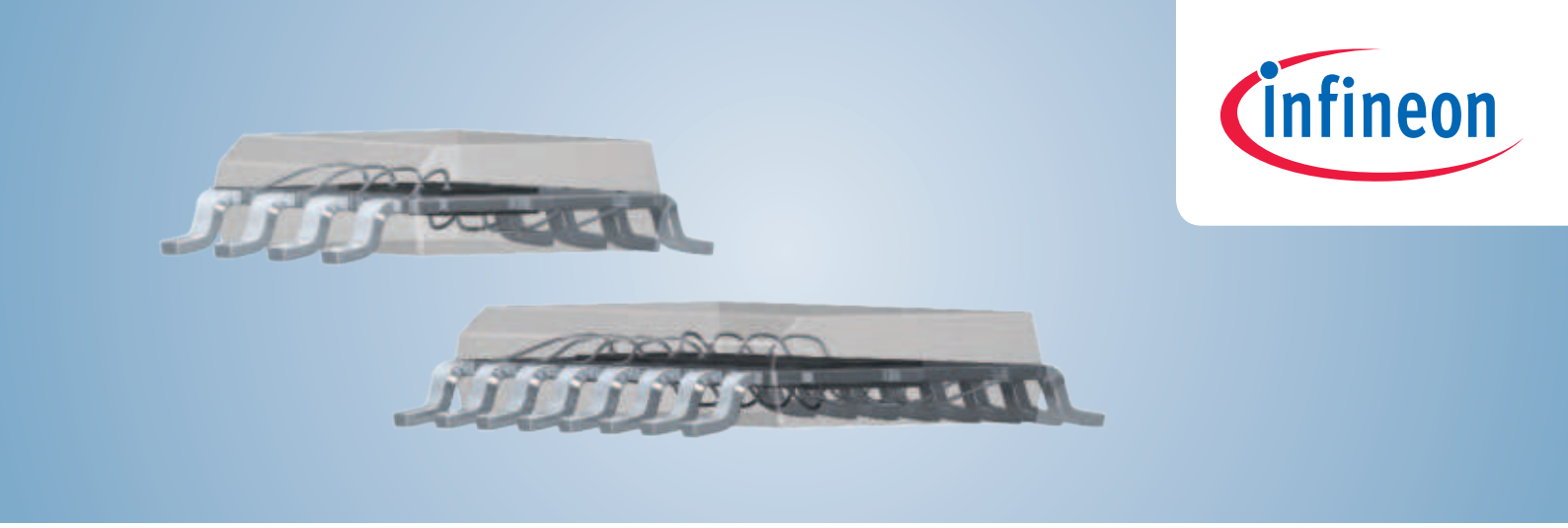


Product Brief

Dual-Sensor Package

Two Sensors in One SMD Packge



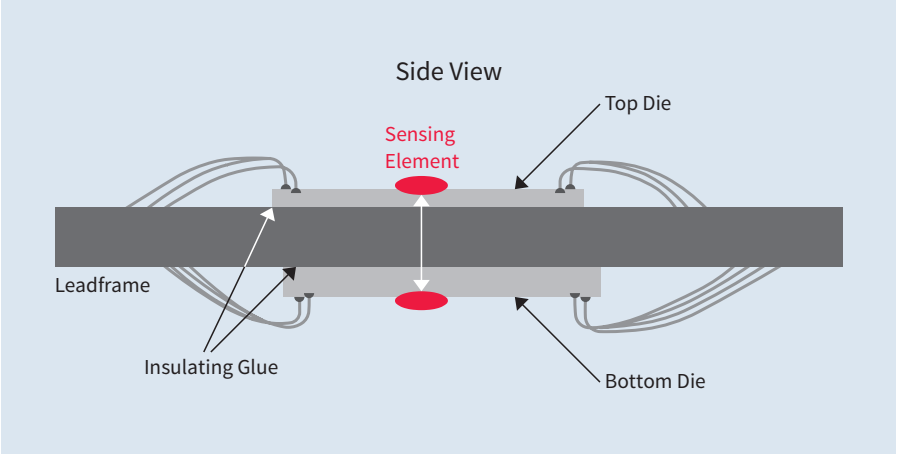
The new SMD package (PG-TDSO) includes two independent sensors with separate power supply and separate signal outputs. Due to special mounting technology, Infineon is able to keep dual-sensor package size very small to enable compact PCB layouts and small magnet sizes.

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



Halogen-Free

RoHS

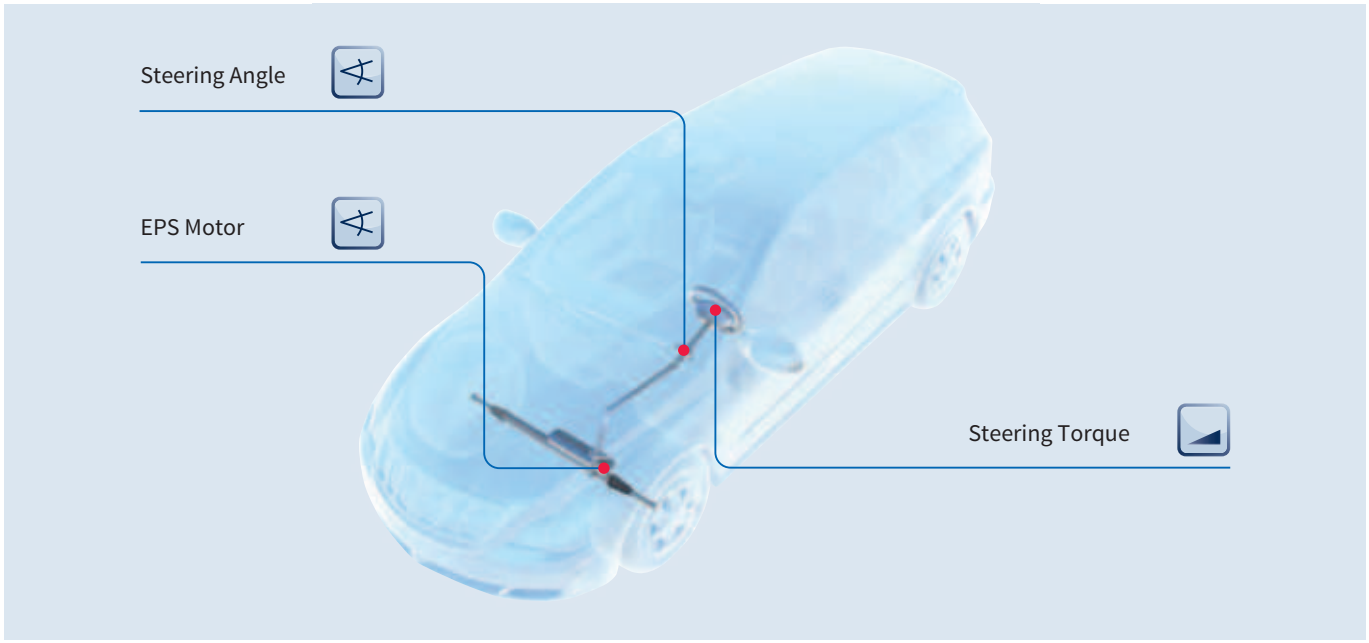
AEC Qualified

www.infineon.com/dual-sensor

Dual-Sensor Package

Two Sensors in One SMD Packge





Linear Hall Angle Sensors

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

Published by
Infineon Technologies AG
85579 Neubiberg, Germany

© 2014 Infineon Technologies AG.
All Rights Reserved.

Visit us:
www.infineon.com

Order Number: B142-H9909-X-X-7600
Date: 05 / 2014

Attention please!
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics ("Beschaffenheitsgarantie"). With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

Information
For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office (www.infineon.com).

Warnings
Due to technical requirements components may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies Office. Infineon Technologies Components may only be used in life-support devices or systems with the express written approval of Infineon Technologies, if a failure of such components can reasonably be expected to cause the failure of that life-support device or system, or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body, or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.