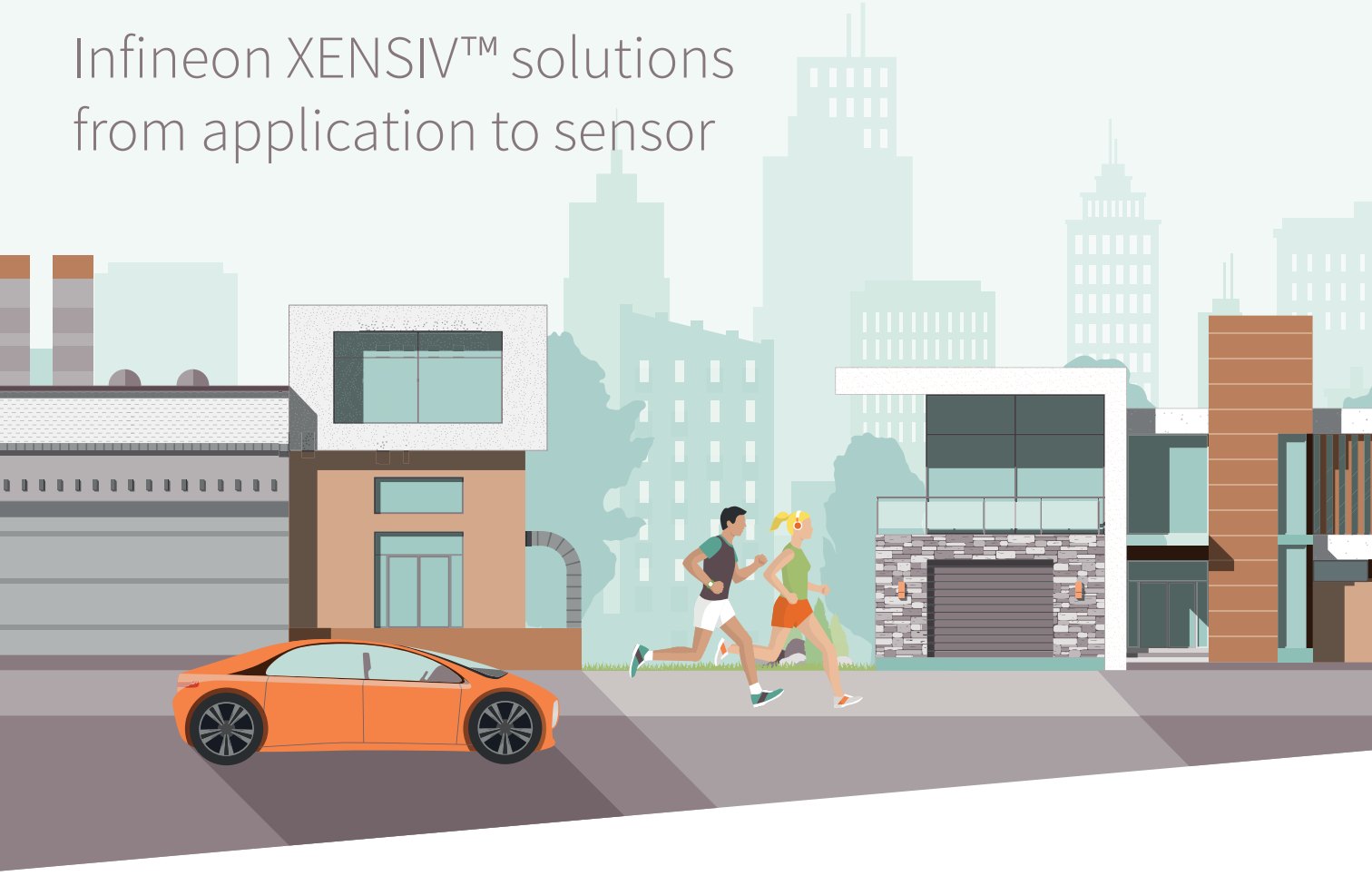
XENSIV™ – sensing the world

Sensor solutions for automotive, industrial and consumer applications

Pocket guide 2020

www.infineon.com/xensiv

Infineon XENSIV™ solutions from application to sensor



Find your sensor

Welcome to our new interactive sensor selection tool, designed to connect you with the best fit for your design as quickly and effortlessly as possible. Simply select the overarching industry (automotive or industrial/consumer) and drill down on the applications till you find your target use case. The selection tool will then tell you what Infineon XENSIV™ sensor is the best choice for your design. It couldn't be easier.

www.infineon.com/fastfinder

Hall switches

TLE/TLI/TLV4961/64/68

Energy-efficient Hall switch family for up to 32 V

Product	Type	Operating point B_{OP} [mT]	Release point B_{RP} [mT]	Hysteresis ΔB_{HY} [mT]	Automotive	Industrial	Consumer	Package
TLE4961-1M/L	Latch	2.0	-2.0	4.0	●	●	●	SOT23/SSO-3-2
TLE4961-2M	Latch	5.0	-5.0	10.0	●	●	●	SOT23
TLE4961-3M/L	Latch	7.5	-7.5	15.0	●	●	●	SOT23/SSO-3-2
TLE4961-4M	Latch	10.0	-10.0	20.0	●	●	●	SOT23
TLE4961-5M	Latch	15.0	-15.0	30.0	●	●	●	SOT23
TLE4964-1M	Switch	18.0	12.5	5.5	●	●	●	SOT23
TLE4964-2M	Switch	28.0	22.5	5.5	●	●	●	SOT23
TLE4964-3M	Switch	12.5	9.5	3.0	●	●	●	SOT23
TLE4964-4M	Switch	10.0	8.5	1.5	●	●	●	SOT23
TLE4964-6M	Switch	3.5	2.5	1.0	●	●	●	SOT23
TLE4964-5M	Switch	7.5	5.0	2.5	●	●	●	SOT23
TLE4968-1M/L	Bipolar	1.0	-1.0	2.0	●	●	●	SOT23/SSO-3-2
TLI4961-1M/L	Latch	2.0	-2.0	4.0	–	●	●	SOT23/SSO-3-2
TLV4961-1M	Latch	2.0	-2.0	4.0	–	–	●	SOT23
TLV4961-3M	Latch	7.5	-7.0	15.0	–	–	●	SOT23
TLV4964-1M	Switch	18.0	12.5	5.5	–	–	●	SOT23
TLV4964-2M	Switch	28.0	22.5	5.5	–	–	●	SOT23

TLE/TLI4963/65-xM

5 V high-precision automotive/industrial Hall-effect sensor

Product	Type	Operating point B_{OP} [mT]	Release point B_{RP} [mT]	Hysteresis ΔB_{HY} [mT]	Automotive	Industrial	Package
TLE4963-1M	Latch	2.0	-2.0	4.0	●	●	SOT23
TLE4963-2M	Latch	5.0	-5.0	10.0	●	●	SOT23
TLE4965-5M	Unipolar switch	7.5	5.0	2.5	●	●	SOT23
TLI4963-1M	Latch	2.0	-2.0	4.0	–	●	SOT23
TLI4963-2M	Latch	5.0	-5.0	10.0	–	●	SOT23
TLI4965-5M	Unipolar switch	7.5	5.0	2.5	–	●	SOT23

Hall switches

TLV496x-xTA/B

Precision Hall-effect sensor for consumer applications in leaded package

Product	Type	Operating point B_{OP} [mT]	Release point B_{RP} [mT]	Hysteresis ΔB_{HY} [mT]	Consumer	Package
TLV4961-1TA	Latch	2.0	-2.0	4.0	●	TO92S-3-1
TLV4961-1TB	Latch	2.0	-2.0	4.0	●	TO92S-3-2
TLV4961-3TA	Latch	7.5	-7.5	15.0	●	TO92S-3-1
TLV4961-3TB	Latch	7.5	-7.5	15.0	●	TO92S-3-2
TLV4964-4TA	Unipolar switch	10.0	8.5	1.5	●	TO92S-3-1
TLV4964-4TB	Unipolar switch	10.0	8.5	1.5	●	TO92S-3-2
TLV4964-5TA	Unipolar switch	7.5	5.0	2.5	●	TO92S-3-1
TLV4964-5TB	Unipolar switch	7.5	5.0	2.5	●	TO92S-3-2
TLV4968-1TA	Bipolar switch	1.0	-1.0	2.0	●	TO92S-3-1
TLV4968-1TB	Bipolar switch	1.0	-1.0	2.0	●	TO92S-3-2

TLx4966x

Two-in-one double Hall sensor, vertical dual-Hall sensor

Product	Type	Output	Operating point B_{OP} [mT]	Release point B_{RP} [mT]	Hysteresis ΔB_{HY} [mT]	Automotive	Industrial	Package
TLE4966G/L	Double Hall, speed and direction output	Speed and direction	7.5	-7.5	15	●	–	TSOP6/ SSO-4-1
TLE4966-2G	Double Hall, two independent outputs	Speed and direction	7.5	-7.5	15	●	–	TSOP6
TLE4966-3G	Double Hall, speed and direction output	Speed and direction	2.5	-2.5	5	●	–	TSOP6
TLE4966V-1G	Vertical double Hall, speed and direction output	Speed and direction	2.5	-2.5	5	●	–	TSOP6
TLI4966G	Double Hall, speed and direction output	Speed and direction	7.5	-7.5	15	–	●	TSOP6

TLE/TLV49x6 family

High-precision Hall switches

Product	Type	Operating point B_{OP} [mT]	Release point B_{RP} [mT]	Hysteresis ΔB_{HY} [mT]	Automotive	Industrial	Consumer	Package
TLE4906K/L	Unipolar switch	10.0	8.5	1.5	●	●	–	SC59/SSO-3-2
TLE4906-2K	Unipolar switch	18.0	12.5	5.5	●	●	–	SC59
TLE4906-3K	Unipolar switch	28.0	22.5	5.5	●	●	–	SC59
TLE4946K	Latch	14.0	-14.0	28.0	●	●	–	SC59
TLE4946-1L	Latch	15.0	-15.0	30.0	●	●	–	SSO-3-2
TLE4946-2K/L	Latch	2.0	-2.0	4.0	●	●	–	SC59/SSO-3-2
TLE4976L	Unipolar switch/ Current interface	6.0	4.0	2.0	●	●	–	SSO-3-2
TLE4976-1K	Unipolar switch/ Current interface	9.25	7.25	2.0	●	●	–	SC59
TLE4976-2K	Unipolar switch/ Current interface	4.5	2.7	1.8	●	●	–	SC59
TLV4946-2K	Unipolar switch	18.0	12.5	5.5	–	–	●	SC59
TLV4976-2K	Unipolar switch / Current interface	4.5	2.7	1.8	–	–	●	SC59

www.infineon.com/hall-switches


BACK
OPTION

3D magnetics

TLV493D-A1B6/TLI493D-A2B6 and new TLI493D-W2BW

3D magnetic sensors for consumer and industrial market

Product	Temperature range	Qualification	Linear magnetic range	Resolution	I_{DD}	Update rate	Package	Ordering code
TLV493D-A1B6	-40 … 125°C	JESD47	±130 mT (typ)	98 µT/LSB	7 nA – 3.7 mA	10 Hz – 3.3 kHz	TSOP6	SP001286056
TLI493D-A2B6	-40 … 105°C	JESD47	±160 mT (min) ±100 mT (min)	130 µT/LSB (65 µT/LSB)[1)]	7 nA – 3.3 mA	10 Hz – 8.4 kHz	TSOP6	SP001689844
TLI493D-W2BW A0 TLI493D-W2BW A1 TLI493D-W2BW A2 TLI493D-W2BW A3	-40 … 105°C -40 … 125°C	JESD47	±130 mT (typ) ±160 mT (min) ±100 mT (min) ±50 mT (min)	130 µT/LSB (65 µT/LSB)	7 nA – 5 mA	3.3 kHz 7.8 kHz	WFWLB-5-2	SP005409964 SP005409966 SP005409968 SP005409970

1) Half range mode

TLE493D-A2B6/W2B6

3D magnetic sensors for automotive low-power applications

Product	Temperature range	Qualification	Linear magnetic range	Resolution	I_{DD}	Update rate	Wake-up	Package	Ordering code
TLE493D-A2B6	-40 … 125°C	AEC-Q100	±160 mT (min) ±100 mT (min)	130 µT/LSB (65 µT/LSB)[1)]	7 nA – 3.3 mA	10 Hz – 8.4 kHz	No	TSOP6	SP001689848
TLE493D-W2B6 A0 TLE493D-W2B6 A1 TLE493D-W2B6 A2 TLE493D-W2B6 A3	-40 … 125°C	AEC-Q100	±160 mT (min) ±100 mT (min)	130 µT/LSB (65 µT/LSB)[1)]	7 nA – 3.3 mA	0.05 Hz – 8.4 kHz	Yes	TSOP6	SP001655334 SP001655340 SP001655344 SP001655348

1) Half range mode

www.infineon.com/3d-magnetics

Linear Halls

TLE499x family
Programmable analog/digital linear Hall sensor family

Ranked No. 1 for measurements and sensors

One sensor channel per package

Product	Programmable	Number of pins	Sensitivity (programmable range)	Magnetic offset	Supply voltage (extended range)	Automotive	ISO 26262	Interface	Package
TLE4997	EEPROM	3/Single die SMD 8	±12.5 to ±300 mV/mT	< ±400 µT	5 V ±10% (7 V)	●	–	Analog	SSO-3-10 TDSO-8
TLE4998P	EEPROM	3/4/ Single die SMD 8	±0.2 to ±6%/mT	< ±400 µT	5 V ±10% (16 V)	●	Ready	PWM	SSO-3-10 SSO-4-1 SSO-3-9 (2 capacitors) TDSO- 8
TLE4998S	EEPROM	3/4/ Single die SMD 8	±8.2 to ±245 LSB_{12}/mT	< ±400 µT	5 V ±10% (16 V)	●	Ready	SENT	SSO-3-10 SSO-4-1 SSO-3-9 (2 capacitors) TDSO-8
TLE4998C	EEPROM	3/4/ Single die SMD 8	±8.2 to ±245 LSB_{12}/mT	< ±400 µT	5 V ±10% (16 V)	●	Ready	SPC	SSO-3-10 SSO-4-1 SSO-3-9 (2 capacitors) TDSO-8
TLE4999I3	EEPROM	3	±73.72 to ±147.44[1] LSB_{13}/mT	< ±300 µT	5.5–7 V ±10% (16 V)	●	Compliant	PSI5	SSO-3-12
TLE4999C8[2]	EEPROM	SMD 8	±73.72 to ±147.44[1] LSB_{13}/mT	< ±300 µT	5.5–7 V ±10% (16 V)	●	Compliant	SPC	TDSO-8

1) 147.44 LSB13 converts to 294.88 LSB12
2) TLE4999C8 planned for 2021, TLE4999C4 planned for 2022

Two sensor channels in one package

Product	Interface	Dual-/single-sensor available	ISO 26262	Package
TLE4997A8D	Analog	yes/yes	Ready	TDSO-8
TLE4998P8D	PWM	yes/yes	Ready	TDSO-8
TLE4998S8D	SENT	yes/yes	Ready	TDSO-8
TLE4998C8D	SPC	yes/yes	Ready	TDSO-8
TLE4999I3	PSI5	monolithic[3]	Compliant	SSO-3
TLE4999C8[4]	SPC	monolithic[3]	Compliant	TDSO-8

3) 2 sensor channels on one chip
4) TLE4999C8 planned for 2021, TLE4999C4 planned for 2022

www.infineon.com/linear-halls

Angle sensors

iGMR, iAMR and iTMR based angle sensors

Diverse redundant sensor with analog and digital interface

Product	Technology	Die configuration	Sin/cos output	Angle output	Second interface	Accuracy	ISO 26262	Package
TLE5009	GMR	Single die	Analog sin/cos	–	–	0.9°	Ready	DSO-8
TLE5009A16(D)	GMR	Dual die	Analog sin/cos	–	–	1.0°	Ready	TDSO-16
TLE5011	GMR	Single die	SSC (SPI)	–	–	1.6°	Ready	DSO-8
TLI5012B	GMR	Single die	SSC (SPI)	SSC (SPI)	PWM/IIF/SPC/HSM	1.9°	QM	DSO-8
TLE5012B(D)	GMR	Single & dual die	SSC (SPI)	SSC (SPI)	PWM/IIF/SPC/HSM	1.0°	Ready	DSO-8/ TDSO-16
TLE5014C16(D)	GMR	Single & dual die	–	SPC	–	1.0°	Compliant	TDSO-16
TLE5014P16(D)	GMR	Single & dual die	–	PWM	–	1.0°	Compliant	TDSO-16
TLE5014S16(D)	GMR	Single & dual die	–	SENT	–	1.0°	Compliant	TDSO-16
TLE5014SP16(D)	GMR	Single & dual die	–	SPI	–	1.0°	QM/Compliant	TDSO-16
TLE5109A16(D)	AMR	Single & dual die	Analog sin/cos	–	–	0.5°	Ready	TDSO-16
TLE5309D	AMR + GMR	Dual die	Analog sin/cos	SSC (SPI)	–	AMR 0.5°, GMR 1.0°	Ready	TDSO-16
TLE5501	TMR	Single die	Analog sin/cos	–	–	1.0°	Compliant	DSO-8

SPI = Serial peripheral interface IIF = Incremental interface PWM = Pulse width modulation

www.infineon.com/angle-sensors

Current sensors

TLI4971 – High-precision coreless current sensors

Product	Accuracy [1] [%]	Current range [A]	Bandwidth typ. [kHz]	Sensitivity [mV/A]	Certification	Industrial	Package
TLI4971-A120T5-U-E0001	3.45	120	240	10	UL	●	TISON-8
TLI4971-A120T5-E0001	3.45	120	240	10	–	●	TISON-8
TLI4971-A025T5-U-E0001[2]	3.45	25	240	48	UL	●	TISON-8
TLI4971-A025T5-E0001[2]	3.45	25	240	48	–	●	TISON-8
TLI4971-A050T5-U-E0001[2]	3.45	50	240	24	UL	●	TISON-8
TLI4971-A050T5-E0001[2]	3.45	50	240	24	–	●	TISON-8
TLI4971-A075T5-U-E0001[2]	3.45	75	240	16	UL	●	TISON-8
TLI4971-A075T5-E0001[2]	3.45	75	240	16	–	●	TISON-8

1) Total error over lifetime and temperature 2) Available Q1/2021

www.infineon.com/current-sensors

Magnetic speed sensors – overview

	Icon/Description	TLE4921	TLE4922	TLE4924	TLE4926	TLE4927	TLE4928	TLE4929	TLE4941	TLE4941plusC	TLE4942	TLE4943	TLE4953	TLE4955	TLE4959	TLE4983	TLE4984	TLE4986	TLE4988	TLE5025	TLE5027	TLE5028	TLE5041plusC	TLE5045	TLE5046
Automotive	Wheelspeed	–	●	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–	–	–	–	–	●	●	●
	Wheelspeed/ Transmission	–	–	–	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Transmission	●	●	–	–	–	–	–	●	●	●	–	●	●	●	–	–	–	–	–	–	–	–	–	–
	Transmission/ Engine	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	Engine	●	●	●	●	●	●	●	–	–	–	–	–	–	–	●	●	●	●	●	●	●	–	–	–
Industrial		●	●	●	–	●	●	●	–	●	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Sensor technology		Diff. Hall	Mono-Hall	Diff. Hall	Diff. Hall	Diff. Hall	Diff. Hall	Diff. Hall	Diff. Hall	Diff. Hall	Diff. Hall	Diff. Hall	Diff. Hall	Diff. Hall	Diff. Hall	Mono-Hall	Mono-Hall	Mono-Hall	Mono-Hall	iGMR	iGMR	iGMR	iGMR	iGMR	iGMR
Improved air-gap/ jitter performance		–	–	–	–	–	–	●	–	–	–	–	–	–	●	–	–	–	●	●	●	●	●	●	●
Direction information available		–	–	–	–	–	–	●	–	–	●	●	●	●	– / ● [3]	–	–	–	–	–	●	●	–	–	●
True Power On (TPO)		–	–	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–
Twist-Independent Mounting (TIM)		–	●	–	–	–	–	–	–	–	–	–	–	–	–	●	●	●	●	–	–	–	–	–	–
Vibration suppression algorithm included		–	–	–	–	–	–	●	–	–	–	–	●	●	●	–	–	–	–	–	–	–	–	–	–
Type of hysteresis[1]		V	H	V	H	H	H	H/V	H	H	H	H	V	V	V	H	H	V/H	V/H	H	H	H	H	H	H
		F	A	A/F	F	A	F	A/F	F	F	F	A	A	A	A	F	F	P/A	P/A	A	A	A	F	A	A
Interface[2]	# of pins	4	4	3	3	3	3	3	2	2	2	2	2	2	3/4	3	3	3	3	3	3	3	2	2	2
	Interface	V	V	V	V	V	V	V	C	C	C	C	C	C	V	V	V	V	V	V	V	V	C	C	C
	Protocol	S	S	S	S	S	S	S/P	S	S	P	AK	P	P	P	S	S	S	S	S	P	P	S	S	P/AK
Electrostatic Discharge (ESD)	Human Body Model (HBM)	2 kV	3 kV	6 kV	6 kV	6 kV	6 kV	6 kV	12 kV	12 kV	12 kV	12 kV	12 kV	12 kV	6 kV	4 kV	4 kV	6 kV	6 kV	8 kV	8 kV	6 kV	12 kV	12 kV	12 kV
Package without integrated capacitor		●	●	–	–	–	●	–	●	–	–	–	●	●	●	–	–	–	–	–	–	–	–	●	●
Package with integrated capacitor		–	–	●	●	●	●	●	–	●	●	●	●	●	●	●	●	●	●	●	●	●	●	–	–

1) H = Hidden; V = Visible; F = Fixed; A = Adaptive; P = Programmable
2) AK = AK protocol; C = Current; V = Voltage interface; S = Single pulse; P = PWM protocol
3) Depending on derivative

Pressure sensors

Absolute pressure sensors (MAP and BAP)

Product	Pressure range [kPa]	Max. accuracy [kPa]	Max. operating temperature [°C]	Automotive	Industrial	ISO 26262
KP21x[1)]	10 ... 150	1.0	140	●	●	–
KP22x[1)]	10 ... 400	2.5	140	●	●	–
KP23x[1)]	15 ... 115	1.0	125	●	●	–
KP236N6165	60 ... 165	1.0	125	●	●	–
KP253	60 ... 165	1.0	125	●	●	–
KP254	40 ... 115	1.5	125	●	●	–
KP255[1)]	10 ... 125	1.4	140	●	●	–
KP256	60 ... 165	1.0	125	●	●	–
KP264	40...115	1.5	125	●	●	Ready
KP276[1)]	10 ... 400	3.0	170	●	●	–

1) For more information on the product, contact our product support
2) Package with small 4-hole lid

KP200/KP201/KP204

PSI5 PRO-SIL™ ready pressure sensor ICs for side crash detection (SAB) and pedestrian protection

Product	PRO-SIL™ support in line with IEC 61508 and ISO 26262	ISO 26262
KP200/KP201/KP204	› KP201 qualified for higher operating temperatures up to 125°C › KP204 with 4-hole lid supporting insect intrusion	Ready

More information on PRO-SIL™ can be found at www.infineon.com/prosil

Pressure sensors

Digital barometric air pressure sensors

DPS310/DPS368/DPS422

Key product features	DPS310	DPS422	DPS368
Package size	LGA 8-pins: 2.0 x 2.5 x 1.0 mm	LGA 8-pins: 2.0 x 2.5 x 0.73 mm	LGA 8-pins: 2.0 x 2.5 x 1.1 mm
Operating pressure range	300 … 1.200 hPa		
Operating temperature range	-40 … 85°C		
Pressure level precision	±0.005 hPa (or ±0.05 m)		±0.002 hPa (or ±0.02 m)
Relative accuracy	±0.06 hPa (or ±0.5 m)		
Absolute accuracy	±1 hPa (or ±8 m)		
Temperature accuracy	0.5°C	< 0.4°C	0.5°C
Pressure temperature sensitivity	0.5 Pa/K		
Measurement time	3.6 ms (low precision); 27.6 ms (standard mode)		
Average current consumption @ 1 Hz sampling rate	1.7 µA pressure measurement, 1.5 µA temp. measurement, standby 0.5 µA	1.7 µA pressure measurement, 2.0 µA temp. measurement, standby < 1 µA	1.7 µA pressure measurement, 1.5 µA temp. measurement, standby 0.5 µA
Supply voltage	V_{DDIO}: 1.2–3.6 V; V_{DD}: 1.7–3.6 V		
Operating modes	Command (manual), background (automatic), standby		
Interface	I^2C and SPI, both with optional interrupt		

SP40+

Tire pressure sensor for Tire Pressure Monitoring Systems (TPMS)

Product	Pressure range [kPa]	On-chip flash memory [kB]	Key features
SP400-11-01	100–900	12	› Highest integration › Very low energy consumption › Robust g- and p-sensor › High LF sensitivity
SP400-11-11	100–900	12 + 2	
SP400-15-11	100–1400	12 + 2	

www.infineon.com/tpms-sensors

www.infineon.com/pressure-sensors

Radar

RASIC™ – automotive radar sensor ICs

RXS816xPL – family of single-chip front-end MMICs for 77/79 GHz automotive RADAR

Product	Configuration	Key benefits	Features
RXS816xPL[1)]	3Tx4Rx	Single- and multi-chip versions in 7 x 8.5 mm eWLB package	› Flexible FMCW waveform generation › Up to 2 GHz modulation bandwidth › Four receive channels featuring integrated filters + AD converters › 4-channel LVDS data interface
RXS8156PLA[1)]	2Tx4Rx	Cost efficient solution for corner radars in 7 x 7.5 mm eWLB package	

1) Coming soon

www.infineon.com/rasic

24 GHz radar sensor ICs

BGT24M/L family of MMIC chips

Product	Configuration	Features
BGT24MTR11	1Tx + 1Rx	› Measures not just motion, but also speed, direction, and distance › Small form factor › Resistance to moisture, dirt and temperature › Increased area coverage › Discrete design › Energy savings › Privacy protection › Adaptable to different application requirements › Highly integrated chips eliminating costly external components
BGT24MR2	2Rx	
BGT24MTR12	1Tx + 2Rx	
BGT24LTR11	1Tx + 1Rx	
BGT24LTR22	2Tx + 2Rx	

www.infineon.com/24GHz

MEMS microphones

High Performance MEMS microphones

Product	Current consumption	Sensitivity	Signal to Noise	AOP	Features
IM69D120	980 µA	-26 dBFS	69 dB	120 dBSPL	› 69 dB(A) signal-to-noise ratio (for < 20 bit encoding systems IM69D120 required) › Below 1 percent distortions at 128 dBSPL (AOP – 130 dBSPL) › Digital (PDM) interface with 6 µs group delay at 1 kHz › Tight sensitivity (-36 ±1 dB) and phase (±2 deg) tolerances › 28 Hz low frequency roll-off
IM69D130	980 µA	-36 dBFS	69 dB	130 dBSPL	

www.infineon.com/mems

Smallest, fully featured, budget-priced evaluation boards

Shield2Go

Security

Product name: OPTIGA™ Trust E Security Shield2Go
Sales name: S2GO_Security_OPTIGA_E
Ordering code: SP001820138

Product name: OPTIGA™ Trust X Security Shield2Go
Sales name: S2GO SECURITY OPTIGA X
Ordering code: SP002349576

Sensors

Product name: TLV493D 3DSense Shield2Go
Sales name: S2GO_3D-SENSE_TLV493D
Ordering code: SP001823678

Product name: TLE493DW2B6 3DSense Shield2Go
Sales name: S2GO_3D_TLE493DW2B6-A0
Ordering code: SP004308594

Product name: TLI493D W2BW Shield2Go [1)]
Sales name: S2GO_3D_TLI493DW2BW-A0
Ordering code: SP005410385

Product name: TLE4964-3M Hall Sense Shield2Go
Sales name: S2GO_HALL_TLE4964-3M
Ordering code: SP004308590

Product name: TLE4966K Double Hall Shield2Go
Sales name: S2GO_2_HALL_TLE4966K
Ordering code: SP004308598

Product name: TLI4971 Current Sense Shield2Go
Sales name: S2GO_CUR-SENSE_TLI4971
Ordering code: SP005345472

1) Coming soon

Sensors

Product name: S2GO Pressure Sensor DPS368
Sales name: S2GO PRESSURE DPS368
Ordering code: SP005338022

Product name: S2GO Pressure Sensor DPS422
Sales name: S2GO PRESSURE DPS422
Ordering code: SP002983204

Product name: S2GO Pressure Sensor DPS310
Sales name: S2GO_PRESSURE_DPS310
Ordering code: SP001777630

MEMS Microphones

Product name: IM69D130 Microphone Shield2Go
Sales name: S2GO MEMSMIC IM69D
Ordering code: SP002851544

Microcontroller

Product name: XMC 2Go Kit
Sales name: KIT_XMC_2GO_XMC1100_V1
Ordering code: SP001199544

MyIoT – Adapter

Product name: MyIoT Adapter
Sales name: MYIOTADAPTERTOBO1
Ordering code: SP002434972

Sensor 2GO kits

3D Magnetic Sensor 2GO kit
Product name: TLE493D-A2B6 MS2GO/
TLE493D-W2B6 MS2GO/
TLV493D-A1B6 MS2GO
Ordering code: SP001707582/
SP001707578/
SP001707574

Angle Sensor 2GO kit
Product name: TLE5012B_E1000_MS2GO/
TLI5012B_E1000_MS2GO/
TLE5012B_E5000_MS2GO/
TLE5012B_E9000_MS2GO
Ordering code: SP002133956/
SP002133960/
SP002133964/
SP002133968

TLI4971 Current Sensor 2GO kit
Product name: TLI4971_MS2GO
Ordering code: SP00534547

MEMS microphone
Product name: EVAL_IM69D130_FLEXKIT/
EVAL_IM69D120_FLEXKIT/
EVAL AHNB IM69D130V01
Ordering code: SP002153022/
SP002153026/
SP005285852

Speed Sensor 2GO kit
Product name: TLE4922 MS2GO
Ordering code: SP003029974

KP2xx pressure sensor 2GO kit
Product name: KP215F1701-PS2GO-KIT
KP229E3518-PS2GO-KIT
KP236-PS2GO-KIT
KP254-PS2GO-KIT
KP275-PS2GO-KIT
Ordering code: SP002676652
SP002676656
SP002676664
SP002676660
SP002676648

Add ons for Sensor 2GO kits and Shield2Go

Joystick for all 3D magnetic sensor 2GO kits and Shield2Go
Product name: JOYSTICK FOR 3D 2 GO KIT
Ordering code: SP001491834

Linear control trigger for all 3D magnetic sensor 2GO Kits and Shield2Go
Product name: POWER_DRILL2GO
Ordering code: SP005350194

Rotate knob for all 3D magnetic sensor 2GO kits, angle sensor 2GO kits and 3D magnetic sensor Shield2Go
Product name: ROTATE KNOB 3D 2 GO KIT
Ordering code: SP001504602

Human machine interface (HMI) direction indicator for all 3D magnetic sensor 2GO Kits and Shield2Go
Product name: DIR_INDICATOR2GO
Ordering code: SP005350196

Linear slider for all 3D magnetic sensor 2GO kits and Shield2Go
Product name: LINEAR-SLIDER 2GO
Ordering code: SP002043034

HMI mini control with 4 directions and 360° rotation for all 3D magnetic sensor 2GO Kits and Shield2Go
Product name: MINI_CONTROL2GO
Ordering code: SP005350192

Out of shaft adapter for all 3D magnetic sensor 2GO kits and Shield2Go
Product name: OUT OF SHAFT FOR 3D 2 GO
Ordering code: SP003475178

Functional safety

What does ISO 26262 compliant mean?

Infineon PRO-SIL™ ISO 26262-compliant safety sensors fulfil the properties required by the ISO 26262 (Automotive Safety) Standard. PRO-SIL™ ISO 26262-compliant product development follows a product specific safety plan defined by Infineon. The product development follows the Infineon V-model based development lifecycle which encompasses all ISO 26262 required activities and work products related to the product scope. Product relevant safety requirements and required metrics are captured and verified through the development of the product, this includes the product safety concept and ultimately a product safety case which provides the argumentation and evidence showing achievement of the defined safety requirements and process compliance, including all essential supporting processes.

An independent functional safety management organization supports the ISO 26262 conformance safety lifecycle.

For ISO 26262-compliant products a Safety Manual and a Safety Analysis Summary Report can be delivered to our customers in addition to Infineon standard documentation.

Moreover Infineon offers expert support for system integrators to achieve the required ASIL on system level. Infineon's activities result in a simplified integration in safety-related applications.

What does ISO 26262 ready mean?

Infineon PRO-SIL™ ISO 26262-ready sensors are developed according to Infineon's sophisticated Automotive Development and Quality Standards. For ISO 26262-ready products additional functional safety analysis will be provided. ISO 26262-ready enables our customers to use Infineon's (QM) Products in safety related applications.

For ISO 26262-ready products Safety Manual and a Safety Analysis Summary Report can be delivered to our customers in addition to Infineon standard documentation. These reports are provided to customers to serve as building block for their system level safety concept. Moreover Infineon offers expert support for system integrators to achieve the required ASIL on system level. Infineon's activities result in a simplified integration in safety-related applications.

ISO 26262 ready

ISO 26262 compliant

Where to buy

Infineon distribution partners and sales offices:
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Service hotline

Infineon offers its toll-free 0800/4001 service hotline as one central number, available 24/7 in English, Mandarin and German.

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- China, mainland ..... 4001 200 951 (Mandarin/English)
- India ..... 000 800 4402 951 (English)
- USA ..... 1-866 951 9519 (English/German)
- Other countries ..... 00* 800 951 951 951 (English/German)
- Direct access ..... +49 89 234-0 (interconnection fee, German/English)

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