

Overview and nomenclature

XENSIV™

3D magnetic position sensor

Tobias Bukowski (IFAG ATV SC M)
July 2018



3D Sensors Product Portfolio

Schedule and Key Differentiations

Industry	Engineering Samples	Temperature Range	Linear Magnetic Range	Additional Features
TLI493D- A2B6	TLE493D-A2B6	-40 to 105°C	160mT (min)	<ul style="list-style-type: none"> • Higher Update Frequency • Master Control Mode • Ultra Low Power Mode
Consumer	Production Samples	Temperature Range	Linear Magnetic Range	Additional Features
TLV493D-A1B6	available	-40 to 125°C	130mT (typ.)	<ul style="list-style-type: none"> • Ultra Low Power Mode
Automotive	Engineering Samples	Temperature Range	Linear Magnetic Range	Additional Features
TLE493D-W2B6 (A0-A3)	available	-40 to 125°C	160mT (min)	<ul style="list-style-type: none"> • Wake Up Function • Fast Initial Bus Communication due to unique, predefined ID for each Sensor (A0 – A3) • Higher Update Frequency • Master Control Mode • Ultra Low Power Mode
TLE493D-A2B6	available	-40 to 125°C	160mT (min)	<ul style="list-style-type: none"> • Higher Update Frequency • Master Control Mode • Ultra Low Power Mode

3D-Sensors nomenclature

Make customers understand our product naming

Example:

TLx	XX	YY	-	A	R	S	T	-	UU
TLE	49	3D	-	A	1	B	6	-	A0

Qualification

TLE: Automotive

TLI: Industrial

TLV: Consumer (Value)

Technology

49: Hall

Sensor Product Number

3D: 3D technology using three hall plates

Variant

Nothing:

A: Standard Common Use
W: Wake-Up

Initial Bus ID
A0-A3

Package
6: TSOP6

Interface
B: I²C Protocol

Generation

1: 1st generation 3D sensor
2: 2nd generation 3D sensor



Part of your life. Part of tomorrow.

