

# Overview and nomenclature

## **XENSIV™**




### 3D magnetic position sensor

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# 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"> <li>Higher Update Frequency</li> <li>Master Control Mode</li> <li>Ultra Low Power Mode</li> </ul>
 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"> <li>Ultra Low Power Mode</li> </ul>
 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"> <li>Wake Up Function</li> <li>Fast Initial Bus Communication due to unique, predefined ID for each Sensor (A0 – A3)</li> <li>Higher Update Frequency</li> <li>Master Control Mode</li> <li>Ultra Low Power Mode</li> </ul>
TLE493D-A2B6	available	-40 to 125°C	160mT (min)	<ul style="list-style-type: none"> <li>Higher Update Frequency</li> <li>Master Control Mode</li> <li>Ultra Low Power Mode</li> </ul>

# 3D-Sensors nomenclature

Make customers understand our product naming



Example:

<b>TLx</b>	<b>XX</b>	<b>YY</b>	<b>-</b>	<b>A</b>	<b>R</b>	<b>S</b>	<b>T</b>	<b>-</b>	<b>UU</b>
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**

## Generation

**1: 1<sup>st</sup> generation 3D sensor**  
**2: 2<sup>nd</sup> generation 3D sensor**

## Interface

**B: I<sup>2</sup>C Protocol**

## Package

**6: TSOP6**

## Initial Bus ID

**A0-A3**



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