



# LXK3301AR001 - LX3301A 120 Degree Rotary Inductive Position Sensor EVAL Board with Programmer

Part Number: LXK3301AR001

## Summary

This Kits includes a LXE3301AR001 Sensor evaluation board, an IPCE programmer, links to our IPCE software, and applicable cables. See our LX3302A and LX3301A Evaluation Kit User Guide how to get started with the KIT.

### **SENSOR PCB:**

The sensor is the first step to using an Inductive Position sensor in your application. Each sensor PCB comes with LX3301A IC and passive components installed, along with a connector and cable for interface to our IPCE programmer. All you need is to power it up to get readings.

**IPCE Programmer:**

The programmer provides simple interface between the evaluation board and the laptop, together with the Integrated Programming and Calibration Environment (IPCE) GUI, it allows data capturing, measuring and auto calibration of the device. Some key features of the IPCE are

- o Simplified Sensor System Calibration and Testing
- o Programs EEPROM
- o Simulates Position Output
- o Auto Calibration
- o Stand Alone TCP/IP Addressable Software for Production

**IPCE Simplifies Sensor Data Capturing Function:**

The IPCE software together with the programmer allow instant data capturing either by manually click on the "capture data" button, or automatically through TCP/IP protocol. All the data captured could be easily saved into an excel file by using the "Save Datalog" button or transferred to the Analysis tab for further analysis. The only external requirement is an accurate bench method to absolute mechanical movement.

**IPCE simplifies Calibration with a Single Click:**

The IPCE software will simplify the calibration of the IC to the sensor. The software can simulate any data collected by the measurement tab or an external environment that is saved in our spreadsheet format. The IPCE provides a single click "Auto Calibration" function which would automatically find and present the optimal calibration result. These can then be programmed to the IC for the specific sensor.

## Product Features

18mm Diameter, 120 degree Rotary Position Sensor with Programmer