Overview

Parametrics

Products

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92GO_CUR-SENSE_TLI4971

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XENSIV(TM) - TLI4971 Shield2Go for industrial current sensor

Infineon has extended its portfolio of coreless current sensors with the new TLI4971. Our sensor relies on a Hallbased magnetic sensing principle with an integrated current rail offering smallest footprint resulting in an overall system size reduction. In addition a differential measurement principle makes the current sensor stray-field robust,-furthermore an ultra- fast analog output path offers a bandwidth of up to 120kHz. Paired with 2



programmable overcurrent channels the current sensor is a perfect fit for industrial applications such as drives and inverters. For evaluation purposes of the latest XENSIV[™] current sensor TLI4971 we rely on our proven evaluation concept

of Shield2Go and 2GO Kits - therefore the TLI4971 evaluation environment is also offered in those two configurations:

- TLI4971 MS2GO: 2GO Kit version
- TLI4971 S2GO: Shield2Go version

TLI4971 S2GO (Shield2Go) version consists of 3 main building blocks:

- Sensor board (top): Incorporating the TLI4971 industrial current sensor (equipped with M4 screw connectors for high current capabilities < 20A) Adapter board (Shield2Go format): The adapter board comes in the Shield2Go pinout and can be connected to
- the sensor board via the PCB edge connectors. It implements sensor application circuit & peripherals as well as pinout to the Infineon XMC 2Go (link to XMC 2Go) MCU platform. • Ziplock bag with: 2xM4 screws, 1 PCB edge connector (for connecting the sensor board to the adapter board in
- the Shield2Go formfactor), pin headers (male & female) Two typical configurations for the TLI4971 Shield2Go version - offering full flexibility:

Shield2Go configuration: Connecting the sensor board to the adapter board with PCB edge connectors. The

- pinout corresponds to the Infineon XMC 2Go (link XMC 2Go) MCU platform. Please note that the XMC 2Go is **not** provided in the package. The programming can be done in the Arduino IDE by selecting the XMC 2Go platform.
- (e.g. interfaced with customer MCU platforms, interfaced with lab equipment etc). The TLI4971 S2GO does not offer programmability features, but all programming features can be explored by

• Standalone sensor board: The sensor board (top) can also be used as a standalone in any customer application

RAM settings.

Potential Applications

- Industrial
- Consumer
- Drives
- Pumps Inverter
- 3-phase inverter
- BLDC Motor control

Parametrics

Parametrics	S2GO_CUR-SENSE_TLI4971
Applications	Industrial, Consumer
Family	Current Sensor
Product Description	XENSIV™ magnetic current sensor TLI4971-A120T; ; Sensor board for high current capability (≤20A); ; To be used with Arduino or XMC 2GO evaluation board

Documents

- + Expand all

+ Getting Started

+ User Manual

+ Product Catalogue

+ Product Selection Guide

+ Presentations

Sales Product Name

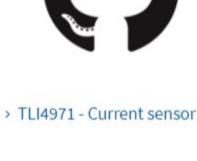
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OPN	S2GOCURSENSETLI4971TOBO1
Product Status	active and preferred
Package name	
Order online	
Completely lead free	
Halogen free	
RoHS compliant	yes
Packing Size	1
Packing Type	CONTAINER
Moisture Level	
Moisture Packing	NON DRY

S2GO_CUR-SENSE_TLI4971

Software and documentation - free download @ GitHub

Tools & Software



+ Software

Discover the full potential of this new current sensor with Infineon XENSIV(TM) TLI4971 2GO kits

Videos

NEW magnetic current sensor TLI4971 | #XENSIV™

The TLI4971 is Infineon's new industrial current

sensor offering an unique feature set for highly

accurate, coreless current sensing. The sensor

offers a current measurement range of 25A to a

XENSIV[™] Magnetic Angle Sensor 2GO

kit - Infineon's 2GO kit for the

TLE5012B GMR angle sensor



How to replace an optical encoder with

Infineon XENSIV™ magnetic angle

sensors



behavior of an optical encoder, offering smaller

size and faster start-up due to absolute angle

information right from the start.

125A full scale range, an analog output with a bandwidth of 120kHz as well as 2 overcurrent channels for ultra-fast overcurrent detection of 1.8us. Discover the full potential of this new current sensor with Infineon's TLI4971 2GO kits offering ready-to-use hardware combined with a dedicated GUI for fast start-up and evaluation. Support

position for motor commutation. As part of the 2GO kit family Infineon is offering a ready-touse and plug-and-play evaluation kit by providing a dedicated GUI for fast prototyping. Download the GUI, connect the 2GO kit and start your evaluation!

Top 6 FAQs. Use the search bar above to show more!

What are the available current measurement ranges of the XENSIV...

The TLI4971 provides a pre-calibrated

In order to enable us to process your inquiry as efficiently as possible and

ensure your case is duly reported, we

the following support form:...

kindly ask you to submit your request via

re-program the sensor to

75A/50A/37.5A/25A.

current measurement range up to 120A

full scale range. In addition customers can

Search the FAQs! Enter your search terms...

by overcurrent?

Is the current sensor TLI4971 affected

Not at all. The sensor is limited only by the

thermal capacitance of the package.

The package information is available on

Why is shielding not required for the

The differential sensing principle provides

current sensor TLI4971?

Package information

intrinsic stray field cancellation.

Q

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