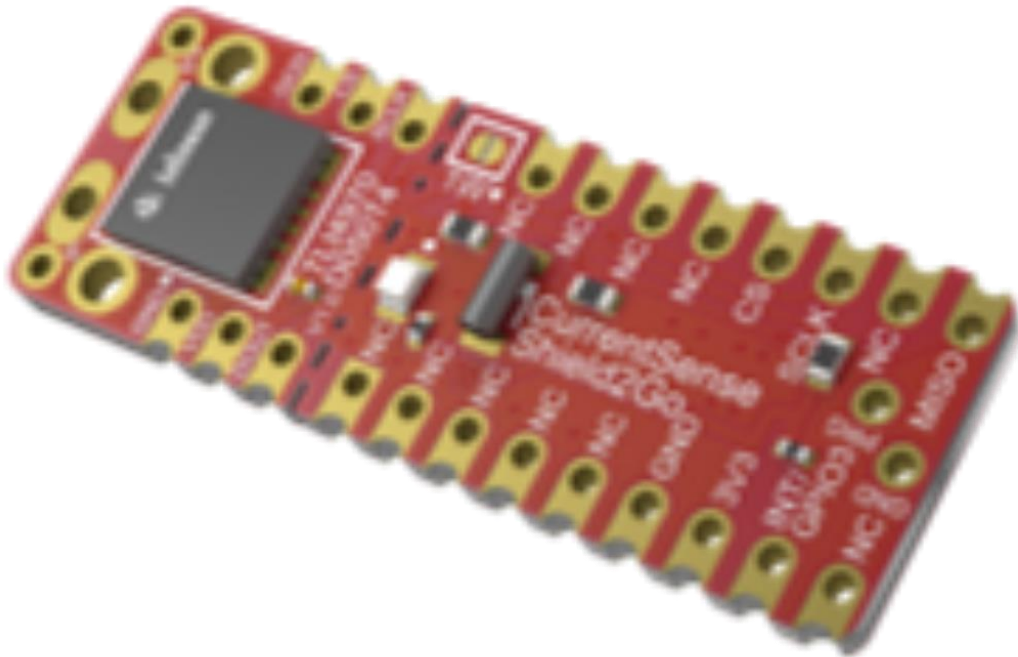# S2GO_CUR-SENSE_TLI4970

Description:

TLI4970 Description: TLI4970 is a high-precision current sensor based on Infineon´s proven Hall technology. The coreless concept significantly reduces footprint compared with existing solutions. It's an easy-to-use, fully digital solution that does not require external calibration or additional parts such as A/D converters, 0 pAmps or reference voltage.

Description S2Go_CurrentSenseTLI4970: Infineon's S2Go_CurrentSenseTLI4970

boards offer a unique customer and evaluation experience – the boards are equipped

with one TLI4970 current sensor and come with a ready to use Arduino library.

Customers can now develop their own system solutions by combining 2Go boards

together with Infineon MyIoT adapters. MyIoT adapters are gateways to external

hardware solutions like Arduino and Raspberry PI, which are popular IoT evaluation

platforms. All this enables the fastest evaluation and development of IoT system on the

market!

Summary of Features:

- AC & DC measurement range up to ±50A
- Highly accurate over temperature range and lifetime (max. 1.0% (0 h))
- 1.6% (over lifetime) of indicated value)
- Low offset error (max. 25mA)
- Fast overcurrent detection with configurable threshold
- Galvanic isolation up to 2.5kV max. rated isolation voltage (UL1577)
- 16 bit digital SPI output (13 bit current value)
- Small 7 mm x 7 mm SMD package
- Free and easy download of Arduino libraries
- 2Go boards can be easily combined to systems by using MyIoT adapters

Target Applications:

- Photovoltaic and general purpose inverters
- Power supplies (SMPS)
- Battery chargers
- Lighting applications
- Electrical drives

Parametrics

Parametrics	S2GO_CUR-SENSE_TLI4970
Configuration	TLI4970-D050T4
Family	Sensor
Input Type	DC
Product Description	Shields for Arduino 2Go for current sensor
Qualification	Industrial
Supply Voltage **min max**	3.1 V 3.5 V
Target Application	Consumer
Type	Demo Board

Order

Sales Product Name	S2GO_CUR-SENSE_TLI4970
OPN	S2GOCURSENSETLI4970TOBO1
Product Status	on request
Package name	--
Order online	
Completely lead free	
Halogen free	
RoHS compliant	no
Packing Size	1

Sales Product Name	S2GO_CUR-SENSE_TLI4970
Packing Type	CONTAINER
Moisture Level	
Moisture Packing	NON DRY