

Würth Elektronik eiSos GmbH & Co. KG

EMC & Inductive Solutions

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Product / Process Change Notification (PCN)

- Major change
 Minor change

PCN #: PCN_WSEN-ITDS_20201120

Affected Series:

WSEN-ITDS; 2533020201601,
 WSEN-ITDS; 25330202016011,
 WSEN-EVAL; 2533020201681

PCN Date: November 14, 2020

Effective Date: December 14, 2020

Change Category:

- Equipment / Location
 General Data
 Material
 Process
 Product Design
 Shipping / Packaging
 Supplier
 Software

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Data Sheet Change:

Yes No

Attachment:

Yes No

DESCRIPTION AND PURPOSE OF CHANGE:

As an extension of product functionality, Würth Elektronik will officially release the usage of an already integrated feature - an additional communication interface SPI (Serial Peripheral Interface).

Because of a database rounding mismatch, Würth Elektronik changed the sensor pad dimensions in datasheet. The STP file was correct. This is only a datasheet change in terms of digits after the comma.

There will be no change in form, fit, function, quality or reliability of the product.

DETAIL OF CHANGE:

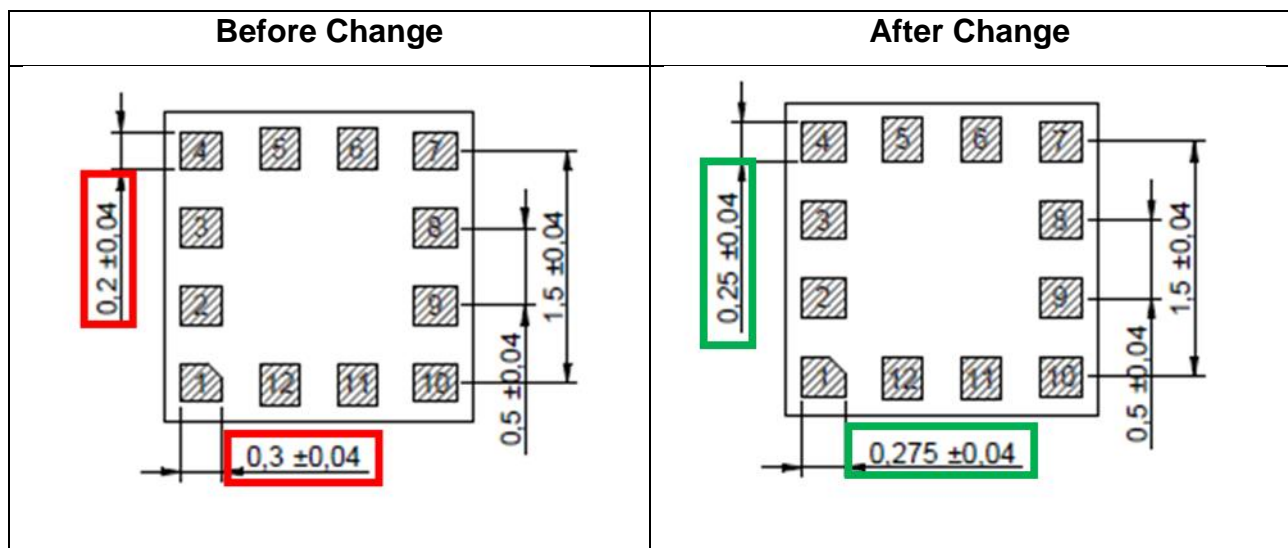
1. The parameter "Communication Interface" under table 'General Information' will be updated with the SPI interface. Updated information is marked with a red box before change and with a green box after change.

Before Change		After Change	
General Information:		General Information:	
Operating Temperature	-40 up to +85 °C	Operating Temperature	-40 up to +85 °C
Storage Conditions (in original packaging)	< 40 °C ; < 90 % RH	Storage Conditions (in original packaging)	< 40 °C ; < 90 % RH
Communication interface	PC	Communication interface	PC, SPI
Moisture Sensitivity Level (MSL)	3	Moisture Sensitivity Level (MSL)	3
Electrostatic discharge protection (HBM)	2 kV		

2. The description of the product specific pinning is updated according to the functionality of the SPI communication interface. Updated information is marked with a red box before change and with a green box after change.

Before Change				After Change			
Pin Description				Pin Description			
Pin	Pad	Description	I/O	Pin	Pad	Description	I/O
SCL	1	IC serial clock	Input	SCL	1	IC/ SPI serial clock	Input
CS	2	IC enable/disable	Input	CS	2	IC enable/disable SPI chip select	Input
SAO	3	IC device address selection	Input	SAO	3	IC device address selection SPI serial data output	Input/Output
SDA	4	IC serial data	Input/Output	SDA	4	IC serial data SPI serial data input	Input/Output
NC	5	No connection	-	NC	5	No connection	-
GND	6	Negative supply voltage	Supply	GND	6	Negative supply voltage	Supply
RSVD	7	Reserved	Input	RSVD	7	Reserved	Input
GND	8	Negative supply voltage	Supply	GND	8	Negative supply voltage	Supply
VDD	9	Positive supply voltage	Supply	VDD	9	Positive supply voltage	Supply
VDD_IO	10	Power supply voltage for I/O pins	Supply	VDD_IO	10	Power supply voltage for I/O pins	Supply
INT_1	11	Interrupt pin 1	Input/Output	INT_1	11	Interrupt pin 1	Input/Output
INT_0	12	Interrupt pin 0	Output	INT_0	12	Interrupt pin 0	Output

3. Sensor pad dimensions in the CAD drawings were rounded off to one decimal point. This has been changed in the datasheet. The updated dimensions rounded off to two decimal points of the pads are 0.25 x 0.275. Updated information is marked with a red box before change and with a green box after change.



RELIABILITY / QUALIFICATION SUMMARY:

Product approval is according to the specification and is internally released by the Product Management Department.