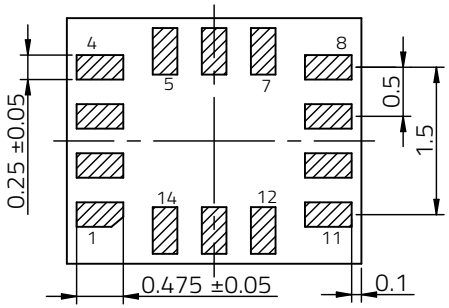
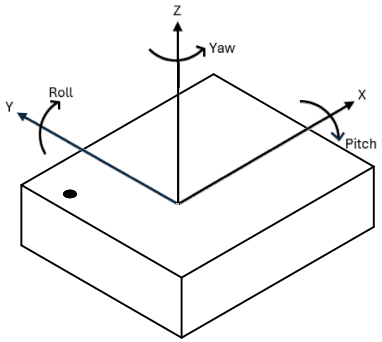
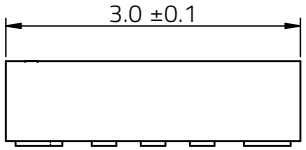
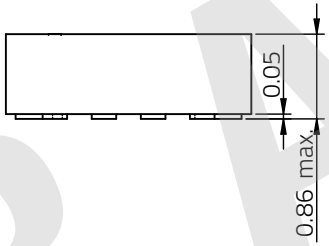
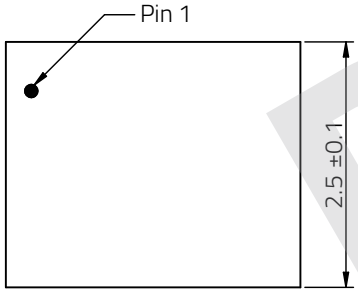
Dimensions: [mm]





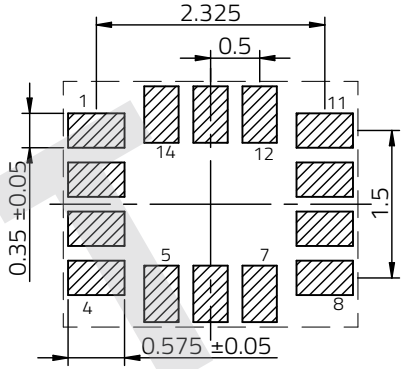






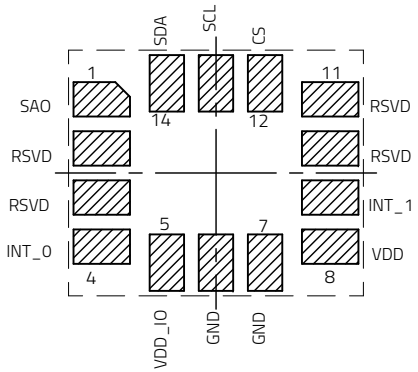
Scale - 13:1

Recommended Land Pattern: [mm]



Scale - 13:1

Product Specific Pinning: (Top View)



Scale - 13:1

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CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
KJo	001.006	2026-12-04	DIN ISO 2768-1m	

DESCRIPTION
WSEN-ISDS IMU 6 Axis Sensor

ORDER CODE
2536030320001

BUSINESS UNIT	STATUS	PAGE
eiSos	Valid from 2026-12-04 due to PCN	1/9

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos Group products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation, transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eiSos Group must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

Acceleration Sensor Specification:

Properties		Test conditions	Value			Unit
			min.	typ.	max.	
Acceleration range	a_{RANGE}			±2/ ±4/ ±8/ ±16 *g*		
Number of measurement axis		X, Y, Z			3	
Output data rate	ODR	User selectable	1.6		6664	Hz
Resolution	RES_a			16		bits
Sensitivity accuracy [1]	SEN_{a_ACC}	T = 25 °C, aRANGE = ±2g	-3		3	%
Sensitivity change over temperature	SEN_{a_TC}	delta from 25°C	-0.024	0.01	0.024	%/ °C
Noise density [2]	n_D	T = 25 °C, aRANGE = ±2g, High performance mode		75	170	µ*g* / √Hz
0g offset [3]	a_{OFF}	T = 25 °C	-85 m*g*	±40 m*g*	+85 m*g*	
Offset change over temperature	a_{TCO}			±0.1 m*g* / °C		
Nonlinearity	NL			±2 %*FS*		
Resonant frequency	f_{res_X}	X		3		kHz
Resonant frequency	f_{res_Y}	Y		3		kHz
Resonant frequency	f_{res_Z}	Z		2.2		kHz

[1] Values are after factory calibration and trimming (parts are not soldered on PCB)
[2] The output values are independent of the selected output data rate
[3] Not measured during final test after production. These are charaterization values with limited number of samples

Gyroscope Sensor Specification:

Properties		Test conditions	Value			Unit
			min.	typ.	max.	
Number of measurement axis		X, Y, Z			3	
Gyroscope range	g_{RANGE}	User selectable		±125/±250/±500/±1000/±2000 dps		
Resolution	RES_g			16		bits
Sensitivity accuracy [1]	SEN_{g_ACC}	T = 25°C, gRANGE = ±125dps	-3		3	%
Sensitivity change over temperature	SEN_{g_TC}	delta from 25°C	-0.048	0.007	0.048	%/ °C
Noise density [2]	n_D	T = 25°C, high performance mode		3.8	11	mdps/ √Hz
Zero rate offset [3]	g_{OFF}	T = 25 °C		±2 dps		
Offset change over temperature	g_{TCO}			±0.015 dps / °C		
Resonant frequency	f_{res}	X,Y & Z axis		20		kHz

[1] Values are after factory calibration and trimming (parts are not soldered on PCB)
[2] The output values are independent of the selected output data rate
[3] Not measured during final test after production. These are charaterization values with limited number of samples

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Temperature Sensor Specification:

Properties		Value			Unit
		min.	typ.	max.	
Measurement range	T_{RANGE}	-40		85	°C
Sensitivity	SEN_T		0.00390625 °C/digit		
Resolution	RES_T		16		bits
Offset [1]	T_{OFF}	-15		15	°C

[1] Output of temperature sensor is 0 LSB typical at 25°C

Electrical Properties:

Properties		Test conditions	Value			Unit
			min.	typ.	max.	
Operating supply voltage	V_{DD}		1.71	3.3	3.6	V
Operating supply voltage for I/O pins	V_{DD_IO}		1.62		3.6	V
Current consumption in high performance mode	I_{DD_HP}	ODR = 6.6kHz		694		µA
Current consumption in normal mode	I_{DD_NM}	ODR = 104Hz		376		µA
Current consumption in low power mode	I_{DD_LP}	ODR = 12.5Hz		280		µA
Current consumption in power down mode	I_{DD_PD}			10		µA
Digital input voltage - high-level	V_{IH}		0.7 * V_{DD_IO}			
Digital input voltage - low-level	V_{IL}				0.3 * V_{DD_IO}	
Digital output voltage - high-level	V_{OH}	I_{OH} = 4 mA	V_{DD_IO} - 0.2 V			
Digital output voltage - low-level	V_{OL}	I_{OL} = 4 mA			0.2 V	

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KJo	001.006	2026-12-04	DIN ISO 2768-1m	

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Absolute Maximum Ratings:

Properties		Value		Unit
		min.	max.	
Input voltage VDD pin	V_{DD}	-0.3	4.8	V
Input voltage VDD_IO pin	V_{DD_IO}	-0.3	4.8	V
Input voltage control pins [1]	V_{IN}	-0.3 * V_{DD_IO}	V_{DD_IO} +0.3 V	
Maximum acceleration (for a duration of 0.2 ms)	a_{Max}		10000	*g*

[1] SDA, SCL, CS & SAO are control pins. Input voltage on any pin should never exceed 4.8 V.

General Information:

Properties	Value	Unit
Operating Temperature	-40 °C up to +85 °C	
Storage Conditions (in original packaging)	up to 40 °C; < 90 % rH	
Communication interface	I²C, SPI	
Moisture Sensitivity Level (MSL)	3	
Electrostatic discharge protection (HBM)	2	kV

Pin Description

Pin	Pad	Description	I/O
SAO	1	I²C device address selection;SPI serial data output (MISO)	Input/Output
RSVD	2	Connect to VDD_IO (Optimize the power consumption during the device start-up sequence)	Input
RSVD	3	Connect to VDD_IO (Optimize the power consumption during the device start-up sequence)	Input
INT_0	4	Interrupt pin 0	Output
VDD_IO	5	Power supply voltage for I/O pins	Supply

Pin Description

Pin	Pad	Description	I/O
GND	6	Negative supply voltage	Supply
GND	7	Negative supply voltage	Supply
VDD	8	Positive supply voltage	Supply
INT_1	9	Interrupt pin 1	Output
RSVD	10	Leave electrically unconnected and solder to the PCB	Input
RSVD	11	Connect to VDD_IO or Leave electrically unconnected and solder to the PCB	Input
CS	12	I²C enable/disable; SPI chip select	Input
SCL	13	I²C/SPI serial clock	Input
SDA	14	I²C serial data; SPI serial data input (MOSI)	Input/Output

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACh Approval	Conform or declared [(EC)1907/2006]

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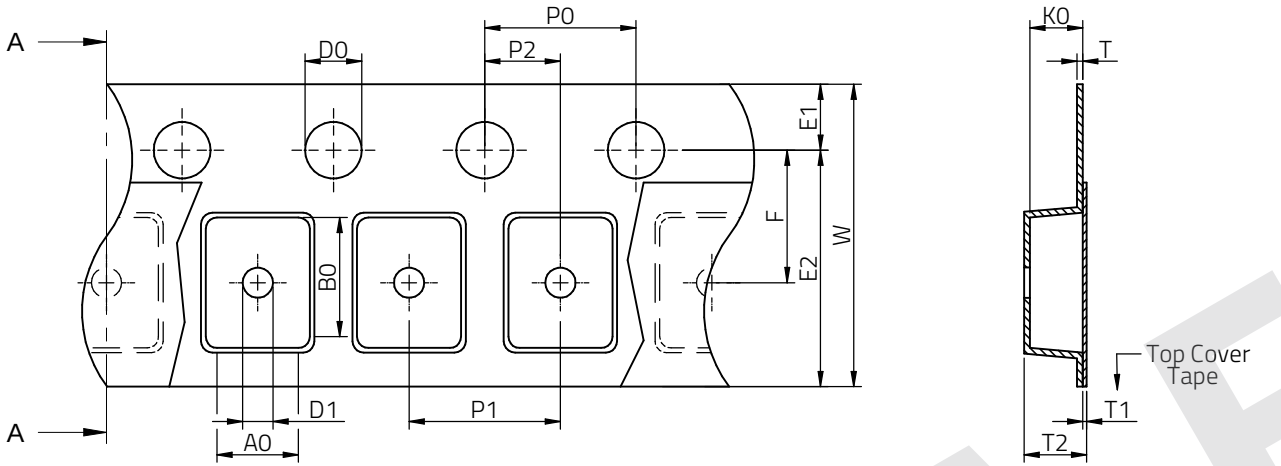
DESCRIPTION
WSEN-ISDS IMU 6 Axis Sensor

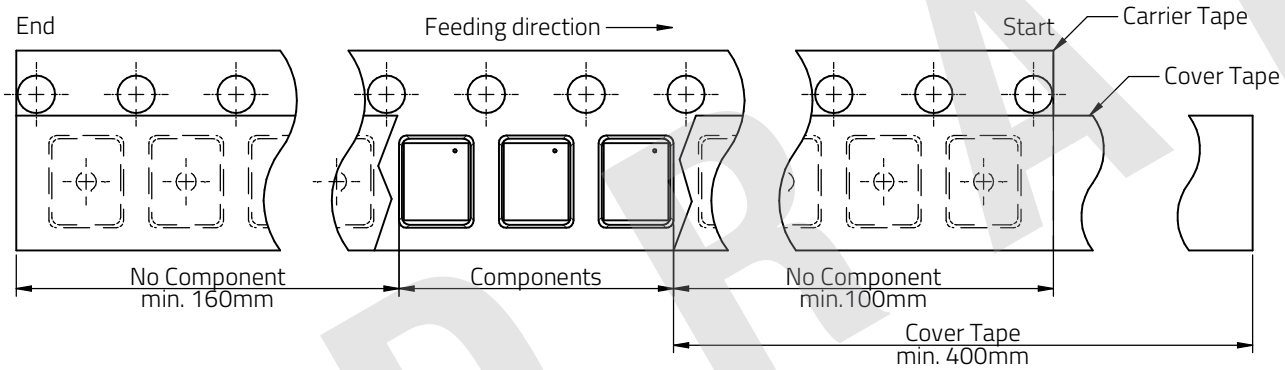
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Packaging Specification - Tape: [mm]

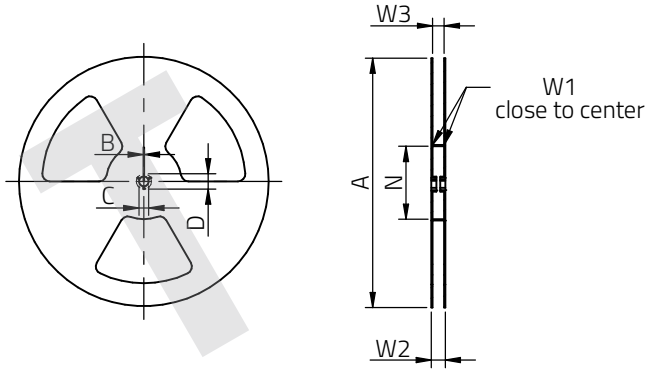


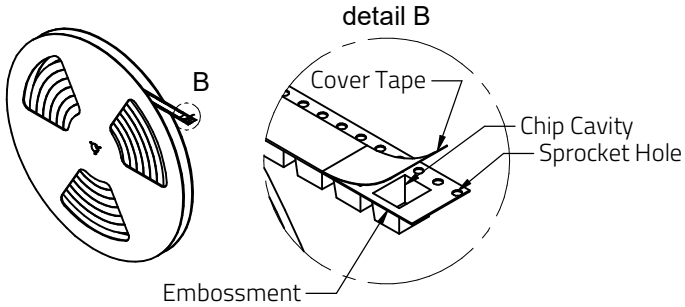


Packaging is referred to the international standard **IEC 60286-3:2019**

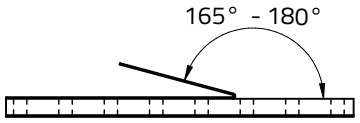
	Tape Type	A0 (mm)	B0 (mm)	W (mm)	T (mm)	T1 (mm)	T2 (mm)	K0 (mm)	P0 (mm)	P1 (mm)	P2 (mm)	D0 (mm)	D1 (mm)	E1 (mm)	E2 (mm)	F (mm)	Material	Qty. (pcs.)
Tolerance		+0.15 / 0	+0.15 / 0	±0,3	±0.02	ref.	typ.	0.1/0	±0,1	±0,1	±0,05	+0,1/ -0,0	+0.2/0	±0,1	min.	±0,05		
Value	2a	2,75	3,45	8,00	0,25	0,10	1,65	1,30	4,00	4,00	2,00	1.5	1	1,75	6,25	3,50	Polystyrene	1000

Packaging Specification - Reel: [mm]





	A (mm)	B (mm)	C (mm)	D (mm)	N (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W3 (mm)	Material
Tolerance	± 2,0	min.	min.	min.	min.	+1,5	max.	min.	max.	
Value	178	1.5	12.8	20.2	50	8.4	14.4	7.9	10.9	Polystyrene



	Pull-off force
Tape width	8 mm
	0.1 N - 1.0 N

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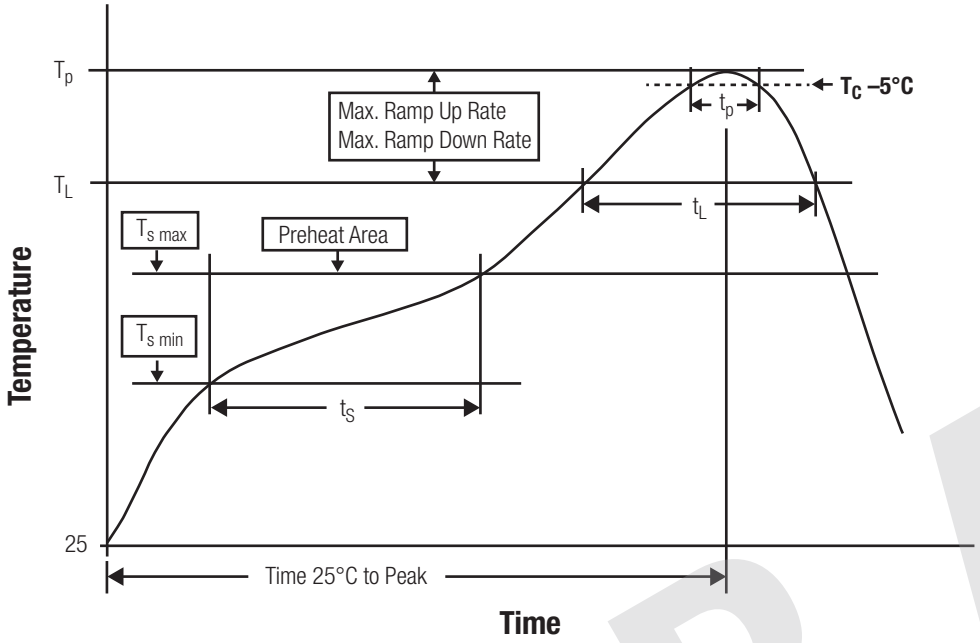
DESCRIPTION
WSEN-ISDS IMU 6 Axis Sensor

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eiSos	Valid from 2026-12-04 due to PCN	5/9

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Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	$T_{s\ min}$	150 °C
Preheat Temperature Max	$T_{s\ max}$	200 °C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	t_s	60 - 120 seconds
Ramp-up Rate (T_L to T_P)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 seconds
Peak package body temperature	T_p	260 °C
Time within 5°C of actual peak temperature	t_p	20 - 30 seconds
Ramp-down Rate (T_P to T_L) 1)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

1) In order to reduce residual stress on the sensor components, the recommended ramp-down temperature slope should not exceed 3°C/sec.
refer to IPC/ JEDEC J-STD-020E

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Further information

Component Libraries:

3D	3D_2536030320000xx
Altium	Altium_WSEN (V8.0)
Eagle	Eagle_WSEN (26b)
IGS	Dowloads_IGS_2536030320000xx
STP	Downloads_STP_2536030320000xx

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Cautions and Warnings:

The following conditions apply to all goods within the product series of sensor components of Würth Elektronik eiSos Group:

General:

- This electronic component is designed and manufactured for use in general electronic equipment.
- Würth Elektronik must be asked for written approval (following the PPAP procedure) before incorporating the components into any equipment in fields such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network, etc. where higher safety and reliability are especially required and/or if there is the possibility of direct damage or human injury.
- Electronic components that will be used in safety-critical or high-reliability applications, shall be pre-evaluated by the customer.
- The component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions specified in the datasheet are not met, the wire insulation may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth Elektronik does not warrant any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and sustainability over time.
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products also apply to customer specific products.

Product specific:

Soldering:

- The solder profile must comply with the technical product specifications. All other profiles will void the warranty.
- All other soldering methods are at the customers' own risk.

Cleaning and Washing:

- Washing agents used during the production to clean the customer application might damage or change the characteristics of the component. Washing agents may have a negative effect on the long-term functionality of the product.
- Using a brush during the cleaning process may damage the component. Therefore, we do not recommend using a brush during the PCB cleaning process.

Potting and Coating:

- Potting material might shrink or expand during and after hardening. This might apply mechanical stress on the components, which can influence the characteristics of the transfer function. In addition, potting material can close existing openings in the housing. This can lead to a malfunction of the component. Thus, potting is not recommended.
- Conformal coating may affect the product performance. We do not recommend coating the components.

Storage Conditions:

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- For a moisture sensitive component, the storage condition in the original packaging is defined according to IPC/JEDEC-J-STD-033. It is also recommended to return the component to the original moisture proof bag and reseal the moisture proof bag again.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

Packaging:

- The packaging specifications apply only to purchase orders comprising whole packaging units. If the ordered quantity exceeds or is lower than the specified packaging unit, packaging in accordance with the packaging specifications cannot be ensured.

Handling:

- Violation of the technical product specifications such as exceeding the nominal rated supply voltage, will void the warranty.
- Violation of the technical product specifications such as but not limited to exceeding the absolute maximum ratings will void the conformance to regulatory requirements.
- ESD prevention methods need to be followed for manual handling and processing by machinery.
- The edge castellation is designed and made for prototyping, i.e. hand soldering purposes only.
- The applicable country regulations and specific environmental regulations must be observed.
- Do not disassemble the product. Evidence of tampering will void the warranty.
- The temperature rise of the component must be taken into consideration. The operating temperature is comprised of ambient temperature and temperature rise of the component.The operating temperature of the component shall not exceed the maximum temperature specified.

These cautions and warnings comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies or incompleteness.

All topics are described in a more detailed manner in the user manual for each product.

DRAFT

RoHS COMPLIANT
REACh COMPLIANT

WÜRTH ELEKTRONIK
MORE THAN YOU EXPECT

Würth Elektronik eiSos GmbH & Co. KG
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CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
KJo	001.006	2026-12-04	DIN ISO 2768-1m	

DESCRIPTION
WSEN-ISDS IMU 6 Axis Sensor

ORDER CODE
2536030320001

BUSINESS UNIT	STATUS	PAGE
eiSos	Valid from 2026-12-04 due to PCN	8/9

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos Group products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation, transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eiSos Group must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos Group

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos Group contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications.
In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component. Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.

6. Product Life Cycle

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered. The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos Group on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos Group. Würth Elektronik eiSos Group does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos Group components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the “General Terms and Conditions of Würth Elektronik eiSos Group”, last version available at www.we-online.com.

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