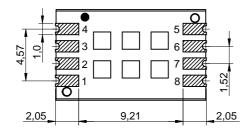
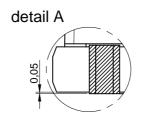
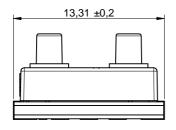
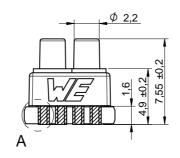
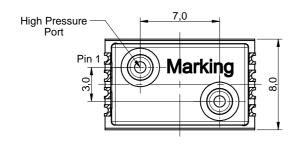
Dimensions: [mm]

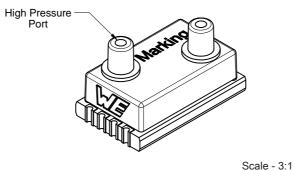




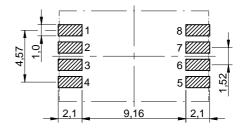






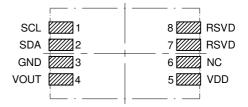


Recommended Land Pattern: [mm] (Top View)



Scale - 3:1

Product Specific Pinning: (Top View)



(3) (A) (A)			CHECKED	REVISION 001.000	DATE (YYYY-MM-DD) 2019-08-13	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	-
Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		361301			ORDER CODE 2513	ORDER CODE 2513130810001			
		n				BUSINESS UNIT eiSos	status Valid		PAGE 1/7

Pressure Sensor Specification:

Dronautica		Test conditions		Value	ue	
Properties		lest conditions	min.	typ.	max.	Unit
Measurement range	P _{RANGE}		-0.1		0.1	kPa
Absolute accuracy	ACC _{P_ABS}	T = 25 °C	-4 %FSS	±2 %FSS	4 %FSS	
Total accuracy	ACC _{P TOT}	T = 0 to 70 °C	-5 %FSS	±2.5 %FSS	5 %FSS	
Sensitivity (digital)	SEN _P			7.63*10 ⁻⁶ kPa/digit		
Sensitivity (analog)	SEN _{P_AN}			0.05 kPa/V		
Repeatability	ACC _{P_REP}			±0.1 %FSS		
Nonlinearity	ACC _{P_NL}		-0.3 %FSS	±0.1 %FSS	0.3 %FSS	
Resolution (ADC)	RES _P			15		bits
Resolution (DAC)	RES _{P_DAC}			11		bits
Response time	t _{RESP}			2.2		ms
Long term drift	ACC _{P DRIFT}	per year		±0.5 %FSS		

Temperature Sensor Specification:

Droportico			Value				
Properties		min.	typ.	max.	Unit		
Measurement range	T _{RANGE}	0		70	°C		
Sensitivity	SEN _T		4.272*10 ⁻³ °C /digit				
Resolution (ADC)	RES _T		15		bits		

Electrical Properties:

Properties		Value					
riopernes		min.	typ.	max.	Unit		
Operating supply voltage	V _{DD}	4.75	5	5.25	V		
Current consumption	I _{DD}		4	6.5	mA		
Output current analog pin	I _{OUT_A}			1	mA		
Digital input voltage - high-level	V _{IH}	0.7 * V _{DD}					

Digital input voltage - low-level	V _{IL}		0.3 * V _{DD}	
Digital output voltage - high- level	V _{OH}	0.9 * V _{DD}		
Digital output voltage - low-level	V _{OL}		0.1 * V _{DD}	

Absolute Maximum Ratings:

Properties		Va	Value			
		min.	max.	Unit		
Input voltage VDD pin	V_{DD}	-0.3	6.5	V		
Input voltage control pins 1)	V _{IN_MAX}	-0.3	5.5	V		
Differential over pressure	P _{OVER}		10	kPa		
Differential burst pressure	P _{BURST}		10	kPa		
Common mode pressure	P _{CM}		2500	kPa		

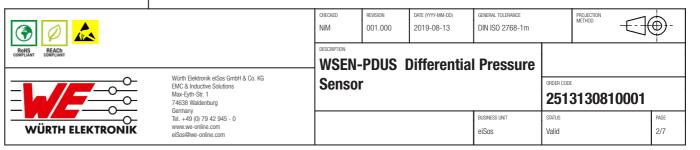
¹⁾ Control pins are SDA and SCL

General Information:

Operating Temperature	-25 up to +85 °C
Storage Conditions (in original packaging)	< 40 °C ;< 75 % RH
Compensated temperature range	0 to 70 °C
Communication interface	I ² C, Analog
Moisture Sensitivity Level (MSL)	1
Electrostatic discharge protection (HBM)	2 kV

Product Specific Pinning:

Pin	Pad	Description	1/0
SCL	1	I ² C serial clock	Input
SDA	2	I ² C serial data	Input/Output
GND	3		Supply
VOUT	4	Analog output	Output

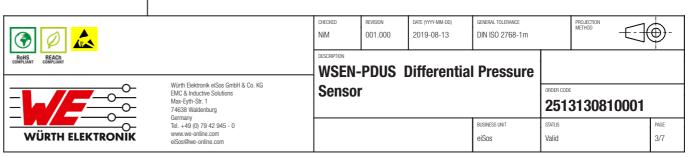


This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG 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 links have that the require links have the requirement of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such that the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such that the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such that the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such that the product is reasonably expected to cause severe personal injury or death, unless the parties have the parties have the product in the product is reasonable product in the product is reasonable product

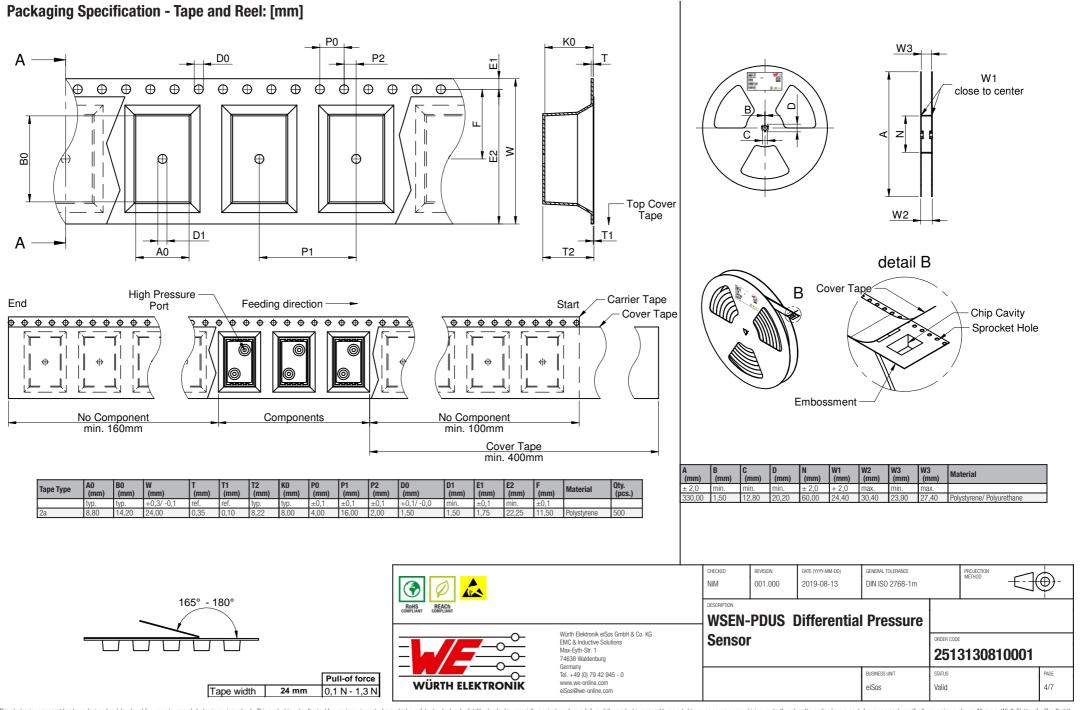
VDD	5	Positive supply voltage	Supply
NC	6	No Connection	
RSVD	7	Reserved	
RSVD	8	Reserved	

Certification:

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

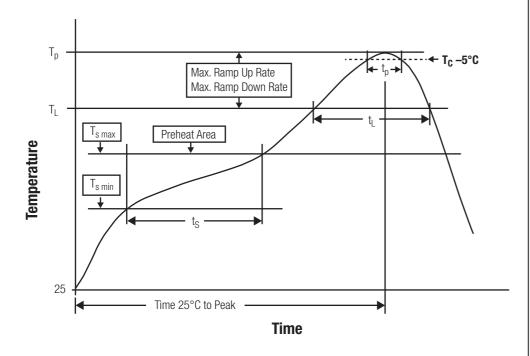


This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, asreagae, availation, nuclear control, ship control, train control, ship control, ship



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 elSos GmbH & Co KG 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 are product in 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 elSos GmbH & Co KG 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 within its used in electrical circuits that require high safety and reliability to a control, train control train control train control.

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	see table below
Time within 5°C of actual peak temperaure	t _p	20 - 30 seconds
Ramp-down Rate (T _L to T _P) 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

Package Classification Reflow Temperature:

Properties	Volume mm³ <350	Volume mm ³ 350-2000	Volume mm³ >2000
PB-Free Assembly I Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly I Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly I Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E

		NiM	REVISION 001.000	DATE (YYYY-MM-DD) 2019-08-13	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	-
ROHS COMPLIANT COMPLIANT Wiirth Flektronik eiSns GmbH & Co. KG		WSEN-PDUS Differential Pressure						
	Wurth Elektronik eloss GimbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 − 0 www.we-online.com elSos@we-online.com	JULIOUI				2513130810001		
WÜRTH ELEKTRONIK					BUSINESS UNIT eiSos	status Valid		PAGE 5/7

Cautions and Warnings:

The following conditions apply to all goods within the product series of sensor components of Würth Elektronik eiSos GmbH & Co. KG:

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:

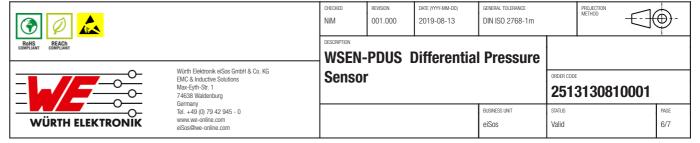
- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components 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.

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.

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.



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 Worth Elektronik elSos GmbH & Co KG products are neither designed nor intended for use in areas such as millitary, aerospace, aviation, nuclear control, submarine, transportation signal, disaster prevention, medical, public information network etc.. Worth Elektronik elSos GmbH & Co KG 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 extensive the reliability functions or performance.

Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG 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

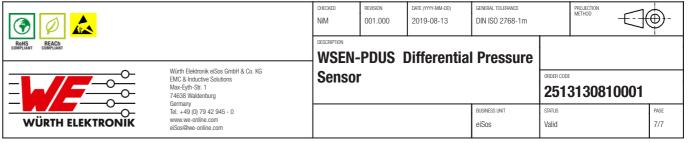
Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. 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 GmbH & Co. KG 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 GmbH & Co. KG 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 GmbH & Co. KG 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.



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 and reliability standard and reliability standard and reliability standard in 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 Worth Elektronik elSos GmbH & Co KG must be informed in every electronic component which is used in electrical circuits that require high safety and reliability functions or performance on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Board Mount Pressure Sensors category:

Click to view products by Wurth manufacturer:

Other Similar products are found below:

6407-249V-17343P 6407-250V-09273P 80527-25.0H2-05 80541-B00000150-01 80541-B00000200-05 80554-00700100-05 8056800300050-01 93.631.4253.0 93.731.4353.0 93.932.4553.0 136PC150G2 136PC15A1 142PC95AW71 142PC05DW70 15PSI-G-4V 180501A-L0N-B 26PCBKT 26PCCFA6D26 26PCCFS2G 26PCCVA6D 93.632.7353.0 93.731.3653.0 93.931.4853.0 93.932.4853.0 SCDA120XSC05DC 185PC30DH 20INCH-G-MV-MINI 26PCAFJ3G 26PCCEP5G24 26PCDFA3G 26PCJEU5G19 ASCX15AN-90
TSCSAAN001PDUCV DCAL401DN DCAL401GN XZ202798SSC XZ203676HSC 6407-249V-09343P 6407-250V-17343P SP370-25-1160 81794-B00001200-01 HSCDLNN100PGAA5 82681-B00000100-01 81618-B00000040-05 SSCDJNN015PAAA5 TSCDLNN100MDUCV
TSCSAAN100PDUCV NBPDANN015PGUNV NBPLLNS150PGUNV 142PC100D