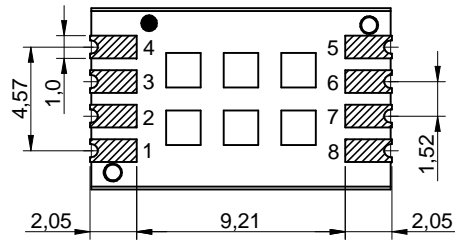
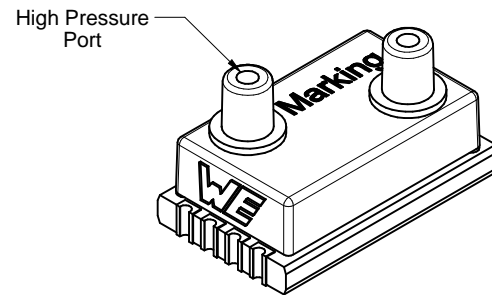
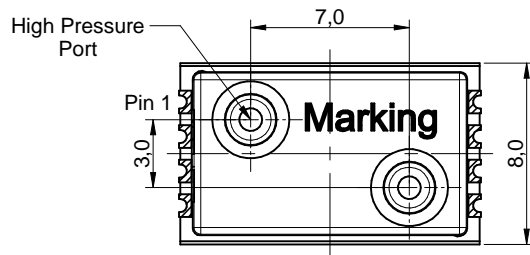
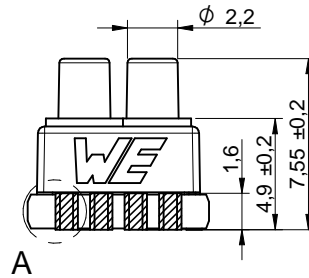
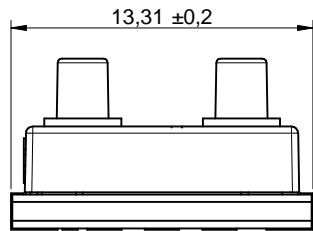
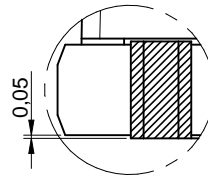


Dimensions: [mm]

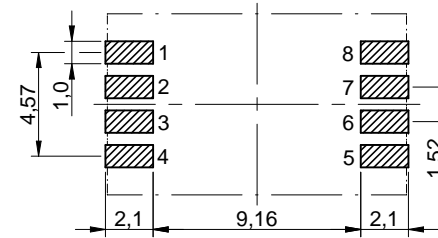


detail A



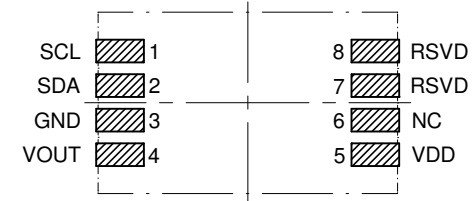
Scale - 3:1

Recommended Land Pattern: [mm] (Top View)



Scale - 3:1

Product Specific Pinning: (Top View)



	CHECKED NIM	REVISION 001.000	DATE (YYYY-MM-DD) 2019-08-13	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
	DESCRIPTION WSEN-PDUS Differential Pressure Sensor				ORDER CODE 2513130810001
	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			BUSINESS UNIT eiSos	STATUS Valid
				PAGE 1/7	

Pressure Sensor Specification:

Properties		Test conditions	Value			Unit
			min.	typ.	max.	
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:

Properties		Value			Unit
		min.	typ.	max.	
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			Unit
		min.	typ.	max.	
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		Value		Unit
		min.	max.	
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




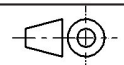

¹⁾ Control pins are SDA and SCL

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	I/O
SCL	1	I ² C serial clock	Input
SDA	2	I ² C serial data	Input/Output
GND	3	Negative supply volage	Supply
VOUT	4	Analog output	Output

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				BUSINESS UNIT eiSos	STATUS Valid