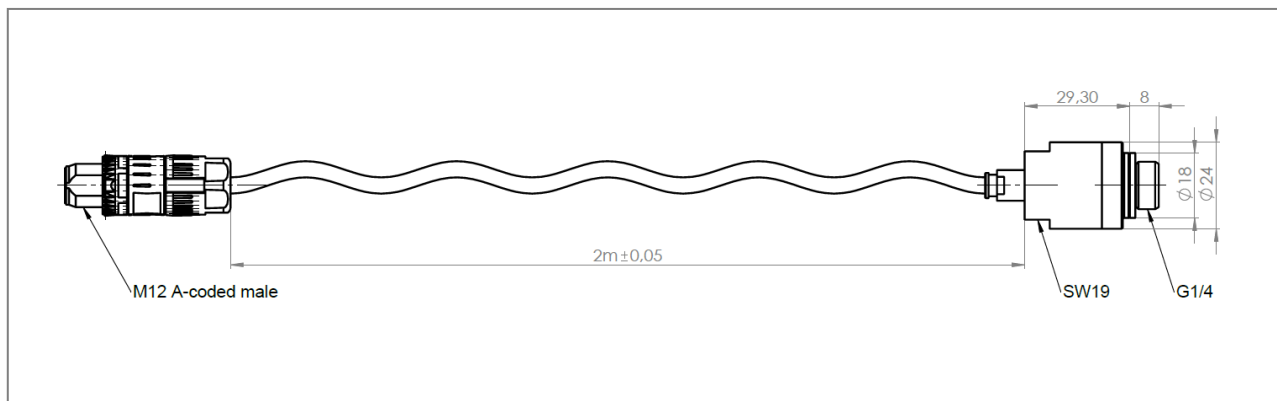


Pressure- and temperaturesensor

Sense P/T 1-160-G1/4 (1194004-001)



Product features

Number of outputs	2 (1 x temperature, 1 x pressure)		
Measuring range temp	-0 ... 160 °C		
Measuring range pressure	0 ... 20 bar	0 ... 290 psi	0 ... 2 MPa
Process connection	G 1/4		

Application area

Measuring element Temp.	1 pc. PT1000 (DIN EN 60751, class B)		
Measuring element pressure	Ceramic pressure cell (Al ₂ O ₃)		
Application	for industrial use		
media	Liquid and gaseous media		
Media temperature	-25 ... 160 °C		
Min. burst pressure	50 bar	725 psi	5 MPa
Pressure type	relative pressure		
Note on compressive strength	When installing in screw-in body, observe pressure resistance of screw-in body		

Electrical data

Operating voltage	U ₀ = 10 V
Current consumption	< 25 mA
Protection class	III
Reverse polar	yes

Pressure- and temperaturesensor

Sense P/T 1-160-G1/4 (1194004-001)

Accuracy temperature measurement

Max. Deviation of the measuring element	Class B: $t_g = 0,15 \text{ °C} + 0,002 \cdot t $
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Accuracy pressure measurement

Repeat accuracy (according IEC 61298-2)	< $\pm 0,1 \%$ FS
Characteristic curve deviation (non-linearity and hysteresis)	< $\pm 0,3 \%$ FS
Long-term stability	$\pm 0,2 \%$ FS
Temperature coefficient zero point	$\leq \pm 0.05 \%$ FS/1K
Temperature coefficient span	$\leq \pm 0.05 \%$ FS/10K

Environmental conditions

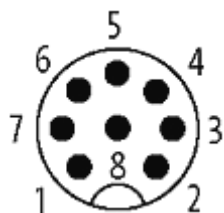
Ambient temperature	-25 ... 125 °C
LStorage temperature	-40 ... 125 °C

Mechanical data

weight [g]	ca. 180
Sensor dimensions (D x H)	24 x 29,3 mm
Materials in contact with medium	1.4301 (stainless steel), FKM, Al ₂ O ₃ ,
Process port	Thread connection G1/4
Screw-in length	8 mm

Elektrischer Anschluss

Connector	M12; Contacts: gold plated
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1	US (10V)	5	PT1000
2	pressure+	6	PT1000 / GND
3	GND	7	n/c
4	pressure-	8	n/c