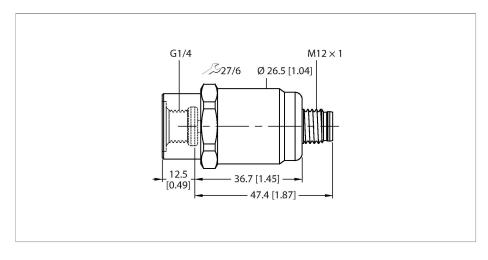


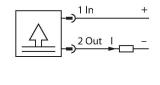
PT0.25R-1001-I2-H1141 Pressure Transmitter – With Current Output (2-Wire)



Features

- Ceramic measuring cell
- Compact and robust design
- Excellent EMC properties
- Pressure range 0...0.25 bar rel.
- ■7...33 VDC
- ■Analog output 4...20 mA
- Process connection G1/4" female thread, front sealing
- Connector device, M12 × 1

Wiring diagram





Technical data

Туре	PT0.25R-1001-I2-H1141
ID	100010886
Pressure range	
Pressure type	Relative pressure
Pressure range	00.25 bar
	03.63 psi
	00.025 MPa
Admissible overpressure	≤ 3 bar
Burst pressure	≥ 3 bar
Response time	< 2 ms, typ. 1 ms
Long-term stability	0.25 % FS, according to IEC EN 60770-1
Power supply	
Operating voltage	733 VDC
Current consumption	≤ 23 mA
Short-circuit/reverse polarity protection	yes / yes
Protection type and class	IP67 / III
Insulation voltage	750 VDC
Outputs	
Output 1	Analog output
Output function	Analog output current
Analog output	
Current output	420 mA
Load	≤ (Supply voltage -7)/20 kΩ
Resolution	<± 0.1 % FS
Accuracy LHR	± 1.2 % FS BSL

Functional principle

The pressure sensors in the PT...-1000 product series operate with a ceramic measuring cell in various pressure ranges of up to -1...60 bar in 2-, 3- or even 4-wire technology. Depending on the sensor variant, the processed signal is available as an analog output signal (4...20 mA, 0...10 V, 0...5 V, 1... 6 V, ratiometric) or as a digital IO-Link process parameter. The IO-Link sensor variants also have two independently configurable switching outputs.

In addition to the standard variants, there are special sensors for uses such as ATEX areas or for oxygen applications.

A wide range of process connections and electrical connections offer a high degree of flexibility in a wide range of applications.



Technical data

plitude ± 15 mm, directions, 50 con IEC 68-2-6 Shock resistance 100 g, 11 ms, half 6 directions, free forete (6x) acc. to 10 Mechanical data Housing material Pressure connection material Stainless steel 1.4 Pressure transducer material Ceramic Al ₂ O ₃	
Environmental conditions Ambient temperature -30+85 °C Storage temperature -50+100 °C Vibration resistance 20 g, 152000 H plitude ± 15 mm, directions, 50 con IEC 68-2-6 Shock resistance 100 g, 11 ms, half 6 directions, free forcete (6x) acc. to IMechanical data Housing material Stainless-steel/Pla 316L)/polyarylami Pressure connection material Stainless steel 1.4 Pressure transducer material Ceramic Al ₂ O ₃	
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Mechanical data Housing material Pressure connection material Stainless-steel/Pla 316L)/polyarylami Pressure transducer material Ceramic Al ₂ O ₃	z, 1525 Hz with am- 1 octave/minute in all 3 tinuous loads, acc. to
Housing material Stainless-steel/Pla 316L)/polyarylami Pressure connection material Stainless steel 1.4 Pressure transducer material Ceramic Al ₂ O ₃	sinusoidal curve, all fall from 1 m onto con- IEC 68-2-27
Pressure connection material Pressure transducer material Ceramic Al ₂ O ₃	
Pressure transducer material Ceramic Al ₂ O ₃	astic, 1.4404 (AISI de 50 % GF UL 94 V-0
	1404 (AISI 316L)
Sealing material FPM spez.	
Process connection G 1/4" female three	ad (front sealing)
Wrench size pressure connection / coupling nut	
Electrical connection Connector, M12 ×	1
Max. tightening torque of housing nut 20 Nm	
Reference conditions acc. to IEC 61298-1	
Temperature 15+25 °C	
Atmospheric pressure 8601060 hPa a	ıbs.
Humidity 4575 % rel.	
Auxiliary power 24 VDC	
Tests/approvals	
Approvals cULus	
UL registration number E302799	
MTTF 1189 years acc. t °C	
Included in delivery FKM O-ring specia	o SN 29500 (Ed. 99) 40