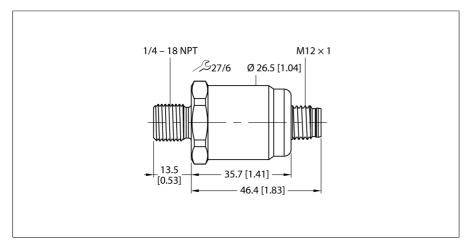


Pressure Transmitter With Voltage Output (3-Wire) PT3PSIG-1503-U1-H1141/D840





Туре	PT3PSIG-1503-U1-H1141/D840
ID	100021367

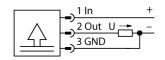
Pressure type	Relative pressure
Pressure range	00.207 bar
	03 psi
	00.0207 MPa
Admissible overpressure	≤ 2 bar
Permissible vacuum	-0.3 bar
Burst pressure	≥ 2 bar
Response time	< 150 ms
Adjustment position	Vertical, pressure connection at bottom
Vertical position error, pressure connection at top	+ 0.2 mbar
Horizontal position error	+ 0.1 mbar
Long-term stability	0.25 % FS, Acc. to IEC EN 60770-1

Power supply	
Operating voltage U _B	1233 VDC
Current consumption	≤ 5 mA
Short-circuit/reverse polarity protection	yes / yes
Protection class	IP67
Insulation class	III
Insulation voltage	500 VDC

Outputs	
Output 1	Analog output
Analog output	
Voltage output	010 V
Load	≥ 10 kΩ
Resolution	<± 0.1 % FS
Accuracy LHR	±0.35 % FS (FS < 100 mbar ±0.7 % FS)
Temperature behaviour	
Medium temperature	-15+85 °C
Temperature coefficient span TkS	± 0.07 % FS/10 K

- Ceramic measuring cell
- Extremely high measuring accuracy
- Compact and robust design
- Excellent temperature behavior
- Pressure range 0...3 psi rel.
- 12...33 VDC
- Analog output 0...10 V
- Process connection 1/4"-18 NPT male thread
- Plug-in device, M12 × 1

Wiring Diagram





Functional principle

The pressure sensors in the PT...-1500 product series operate with a ceramic measuring cell in various micropressure ranges of up to -100...600 mbar in 2- or 3-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, ratiometric)

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



Environmental conditions	
Ambient temperature	-25+85 °C
Storage temperature	-40+85 °C
Vibration resistance	20 g, 152000 Hz, 1525 Hz with amplitude ±
	15 mm, 1 octave/minute in all 3 directions, 50 con-
	tinuous loads, according to IEC 68-2-6
Shock resistance	50 g, 6 ms, half sinusoidal curve, all 6 directions,
	free fall from 1 m onto concrete (6x) acc. to IEC
	68-2-27
Mechanical data	
Housing material	Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyary-
-	lamide 50 % GF UL 94 V-0
Pressure connection material	Stainless steel 1.4404 (AISI 316L)
Material pressure transducer	Ceramic AI□O□
Sealing material	FPM
Process connection	1/4" NPT-18 male thread
Wrench size pressure connection / coupling nut	27
Electrical connection	Connector, M12 × 1
Max. tightening torque of housing nut	27 Nm
Reference conditions acc. to IEC 61298-1	
Temperature	15+25 °C
Atmospheric pressure	8001060 hPa abs.
Humidity	45 % rel.
Auxiliary power	24 VDC
Tests/approvals	
Approvals	cULus
UL registration number	E302799
MTTF	956 years acc. to SN 29500 (Ed. 99) 40 °C

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