

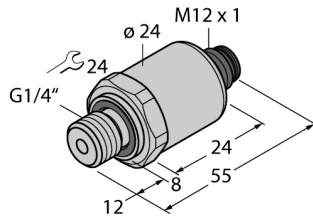
Pressure Sensor

With Voltage Output (3-wire)

PT4A-1004-U1-H1143/X

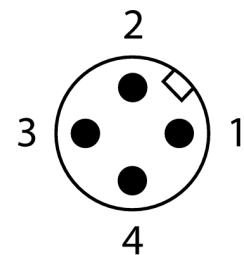
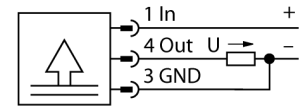
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- Pressure range 0 ... 4.0 bar abs.

Wiring Diagram



Functional principle

The pressure sensors of the PT ...-1000 series operate with a ceramic measuring cell. Depending on the sensor variant, the signal is converted into an analog output signal of either 4...20mA (2-wire) or 0...10V (3-wire).

Type code	PT4A-1004-U1-H1143/X
Ident-No.	6839505
Absolute pressure	0...4 bar abs.
Operating range	0...58.02psi abs.
Operating range	0...0.4MPa abs.
Admissible overpressure	≤ 12 bar
Burst pressure	≥ 12 bar
Response time	< 2 ms, typ. 1 ms
Power supply	
Operating voltage	12... 33VDC
Current consumption	≤ 7 mA
Short-circuit/reverse polarity protection	yes/ yes
Protection type and class	IP67/ III
Outputs	
Output 1	Analog output
Analogue output	
Voltage output	0...10VDC
Operating range	0...10 V (3-wire)
Load	≥ 10 kΩ
Accuracy LHR analog output	± 0.3 % of final value BSL
Calibration accuracy 0-point	0.3 % of final value
Calibration accuracy, of final value	0.3 % of final value
Temperature behaviour	
Medium temperature	-40...125 °C
Temperature coefficient zero point T ₀	± 0.2 % of full scale / 10 K
Temperature coefficient span T _{0.5}	± 0.2 % of full scale / 10 K
Ambient conditions	
Ambient temperature	-30...85 °C
Storage temperature	-50...+100°C
Vibration resistance	20 g, 15...2000 Hz, 15...25 Hz with amplitude +/-15 mm acc. to IEC 68-2-6
Shock resistance	100 g (11 ms) , according to IEC 61508
Housing	
Housing material	Stainless steel 1.4404 (AISI 316L), Stainless steel V4A (1.4404) / PA12-GF30
Pressure connection material	Stainless steel A4 1.4404 (AISI 316L)
Pressure transducer material	Keramik Al ₂ O ₃
Sealing material	FPM spez.
Process connection	G 1/4" male thread
Connection	M12 connector
Max. tightening torque housing nut	20 Nm

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Reference conditions acc. to IEC 61298-1

Temperature	15...25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % rel.
Auxiliary power	24 VDC