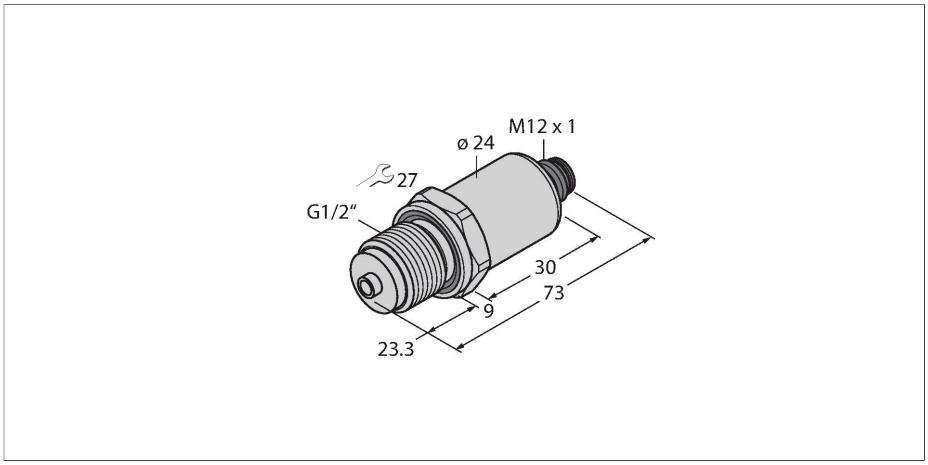
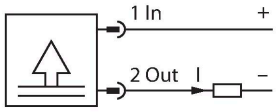
PT16R-2008-I2-H1141
Pressure Transmitter – With Current Output (2-Wire)

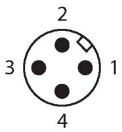


Features

- Fully welded metal measuring cell
- Pressure range 0…16 bar rel.
- 7…33 VDC
- Analog output 4…20 mA
- Process connection G1/2" male thread
- Plug-in device, M12 × 1

Wiring diagram





Technical data

Type	PT16R-2008-I2-H1141
Ident. no.	6836394
Pressure range	
Relative pressure	0…16 bar rel.
	0…232.1 psi
	0…1.6 MPa
Admissible overpressure	≤ 48 bar
Burst pressure	≥ 96 bar
Response time	< 2 ms, typ. 1 ms
Long-term stability	0.25 % FS, according to IEC EN 60770-1
Power supply	
Operating voltage	7…33 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	4…20 mA
Load	≤ (Supply voltage -7)/20 kΩ
Resolution	<± 0.1 % FS

Functional principle

The pressure sensors of the PT…-2000 series operate with a fully welded metal measuring cell. Depending on the sensor variant, the processed signal is available as an analog output signal via 4…20 mA (2-wire). 0… 10 V, 0…5 V and 1…6 V (3-wire) or as an IO-Link process parameter. The IO-Link sensor versions also have two independently configurable switching outputs.

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Technical data

Accuracy LHR	± 0.3 % FS BSL
Temperature behaviour	
Medium temperature	-40…+135 °C
Temperature coefficient	± 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, 1 octave/minute all 3 directions, 50 continuous loads, acc. to IEC 68-2-6
Shock resistance	100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) , acc. to IEC 68-2-27
Housing	
Housing material	Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyacrylamide 50 % GF UL 94 V-0
Pressure connection material	Stainless steel 1.4404 (AISI 316L)
Pressure transducer material	Stainless steel 1.4016 (AISI 430)
Process connection	G 1/2" male thread DIN 3852-E (manometer)
Wrench size pressure connection / coupling nut	27
Electrical connection	Connector, M12 × 1
Max. tightening torque housing nut	30 Nm
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
Approvals	UL E302799
MTTF	1189 years acc. to SN 29500 (Ed. 99) 40 °C
Included in delivery	FKM special profile seal (1x)

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