

APPLICATIONS

- Measuring pressure for liquid and gas
- For research and development, laboratory, and processing engineering
- Factory construction / Instrument manufacturing / Machine devices / Water plant / Air devices, etc

SPECIAL FEATURES

- Piezoresistive diaphragm sensor type
- SUS304 housing, SUS316L sensor material
- Compact and rugged design and easy to install
- With reasonable price, high accuracy and nicer long-term stability



Description

PB120 series pressure transmitter use SUS304 housing and piezoresistive diaphragm sensor type which is SUS316L sensor material, so that the housing is compact and rugged and the measurement system is particularly resistant to mechanical shock and vibration. FTI PB100 have high accuracy and nicer long-term stability, it fits in general industry.

Technical specifications

Input

Sensor Type	Piezoresistive diaphragm
Measuring Range	Absolute pressure : 0...20MPa
Overpressure	1.5 x F.S.

Output

Output	4 ... 20 mA
Signal Connection	2-wire
Load Resistance (Current Output)	$\leq (\text{Working voltage} - 10\text{ V}) / 0.02\text{ A } \Omega$
Output Calibration (ZERO & SPAN)	$\pm 10\%$ of zero-point and full-scale
Response Time (10 ... 90 %)	$\leq 5\text{ ms}$

Temperature Influence (at 35 °C)

Zero-Point Error	$\pm 1.0\%$ of F.S.
Measuring Range Error	$\pm 1.0\%$ of F.S.

Accuracy

Accuracy	$\pm 0.2..0.5\%$ of F.S.
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Environment

Media Measured	Liquid / Gas (provide coating)
Temp. of Media Measured	-30 ... + 80 °C
Ambient Temperature	-40 ... + 85 °C
Ambient Humidity	< 0 ... 95 %RH (non-cond.)
Storage Temperature	-40 ... + 100 °C

Electric

Power Supply	10 ... 30 VDC
Current Consumption	$\leq 27\text{ mA}$
Overvoltage Protection	< 33 VDC
Electric Connection	DIN 43650 ABS plug ; M12 - 4 PIN metal connector

Installation

Installation	Duct
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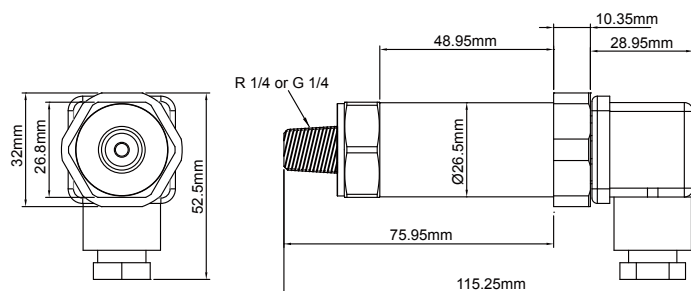
Protection

Protection Rating	DIN 43650 : IP65 ; M12 - 4 PIN metal connector : IP67
Electric Protection	⊗Polarity protection ⊗ Over-voltage ⊗Short-circuit
Shock Effect	10g RMS · 20 Hz ... 2000 Hz

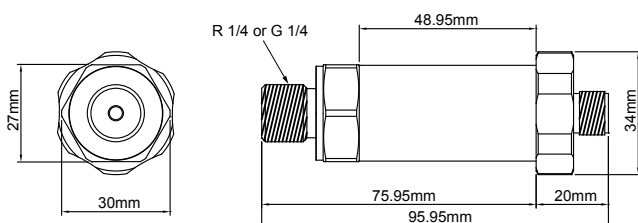
Material

Housing	SUS 304
Wetted Parts	SUS 304
Sensor	SUS 316L
Sealing Material	NBR
Weight	179 g

Dimension



DIN 43650 ABS plug



G 1/4" Outside thread + M12 Connector

Diagram

