IPS-M12 Series



Industrial Pressure Sensor - Ceramic - with M12 4-Pin Connector



- Piezo-resistive thick film ceramic sensor
- Stainless steel body
- Accuracy <±0.25% FS BFSL
- 0-5V or 4-20mA output
- Pressure ranges from -1 to 400 bar
- M12 4-pin connector

The IPS-M12 series is suitable for use in a wide range of industrial applications. The probe uses a piezo-resistive ceramic sensor, giving excellent media compatibility within a stainless steel housing

The electronics incorporate a microprocessor based amplifier, requiring no adjusting and giving stable electronics, especially industrial applications..

Each device is temperature compensated, calibrated and supplied with a traceable serial number and calibration data.

Mating cable and plug assemblies are available - see datasheet M12 Cable Set Series

Electrical Protection		Performance
Supply reverse polarity Electromagnetic compatibility	No damage/no function CE Compliant	Accuracy (Non-Linearity & Hysteresis)<±0.25% / FS (BFSL)Setting Errors (offsets)2-wireZero & Full Scale, <±0.5% / F
Mechanical Stability		Material Specifications
Shock Vibration Temperatures & Thermal Effects Media Temperature Ambient Temperature Storage temperature Compensated temperature range Thermal Zero Shift (TZS) Thermal Span Shift	100g / 11s 10g RMS (20 - 2000Hz) -40°C to +135°C -20°C to +80°C -40°C to +125°C +20°C to +80°C <±0.04% /FS/°C <±0.015% /°C	Housing316L Stainless Steel"O" ring sealsVitonDiaphragmCeramic Al203 96%Media wetted partsHousing & connection, "O" ring seal, diaphragmWeightApprox 100gInstallation positionAnyOperational Life> 100x 106 cyclesInsulation resistance> 50MOhms at 50VdcEnvironmental protectionIP67 (when used with a similarly rated connector)
Pressure Ranges and Passive mV/V	/ Outputs	
Nominal Pressure, Gauge, bar Compound range bar	1 2 5 -0.5 to 0 -0.5 to 2 -1 to 5	10 20 50 100 250 400 -1 to 9 -1 to 19 -1 to 24
Permissible Overpressure bar Burst Pressure bar	2 4 10 4 5 12	20401002004006502550120250500650

output signais an	iu suppiy voitages				
Wire system	Output	Supply Voltage	Connection Pin Nos		
2-wire	4-20mA	9-32Vdc	+ve Supply Pin 1	-ve Supply Pin 2	Ground Earth Pin
3-wire	0-5Vdc	9-32Vdc	+ve Supply Pin 1	-ve Supply Pin 2	
			Output Pin 3	Earth Pin 4	

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IPS-M12 Series



1

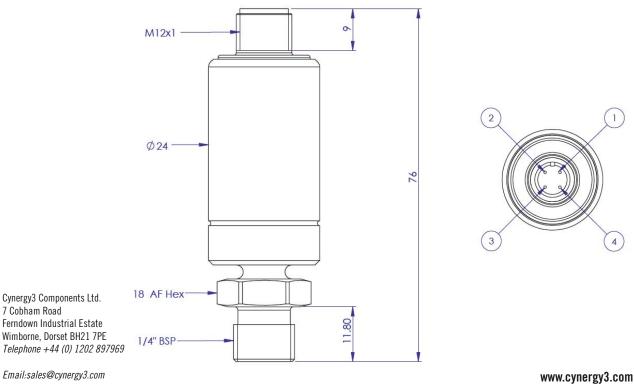
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Industrial Pressure Sensor - Ceramic - with M12 4-Pin Connector

Part Number	Pressure Rating	Output
IPS-G1000-5M12	0 - 1 Bar G	4 - 20mA
IPS-G1000-6M12	0 - 1 Bar G	0 - 5V
IPS-G6000-5M12	0 - 6 Bar G	4 - 20mA
IPS-G6000-6M12	0 - 6 Bar G	0 - 5V
IPS-GM1P9-5M12	-1 to +9 Bar G	4 - 20mA
IPS-GM1P9-6M12	-1 to +9 Bar G	0 - 5V
IPS-G1002-5M12]	0 - 10 Bar G	4 - 20mA
IPS-G1002-6M12	0 - 10 Bar G	0 - 5V
IPS-G1602-5M12	0 - 16 bar G	4-20mA
IPS-G1602-6M12	0 - 16 bar G	0-5V
IPS-C0184-5M12	-1 to +24 Bar G	4 - 20mA
IPS-C0184-6M12	-1 to +24 Bar G	0 - 5V
IPS-G2502-3M12	0 - 25 Bar G	0 - 100mV
IPS-G2502-6M12	0 - 25 Bar G	0 - 5V
IPS-G4002-5M12	0 - 40 Bar G	4 - 20mA
IPS-G4002-6M12	0 - 40 Bar G	0 - 5V
IPS-G1003-5M12	0 - 100 Bar SG*	4 - 20mA
IPS-G1003-6M12	0 - 100 Bar SG*	0 - 5V
IPS-G2503-5M12	0 - 250 Bar SG*	4 - 20mA
IPS-G2503-6M12	0 - 250 Bar SG*	0 - 5V
IPS-G4003-5M12	0 - 400 Bar SG*	4 - 20mA
IPS-G4003-6M12	0 - 400 Bar SS*	0 - 5V

* sealed gauge

Mechanical Dimensions



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