

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				P	erformand	е				
Supply reverse polarity Electromagnetic compatibility		damage/no Compliant	function		-	on-Linearit _! rs (offsets)	y & Hystere 2-w 3-w	ire		(BFSL) Ile, <±0.5% / FS Ile, <±0.5% / FS
Mechanical Stability						ecification				
Shock Vibration Temperatures & Thermal Eff Media Temperature Ambient Temperature Storage temperature Compensated temperature ra Thermal Zero Shift (TZS) Thermal Span Shift	10g ects -40 -20 -40 nge +20 <±	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		D N W Ir O Ir	Housing "O" ring seals Diaphragm Media wetted parts Weight Installation position Operational Life Insulation resistance Environmental protection			316L Stainless Steel Viton Ceramic Al ₂ O ₃ 96% Housing & connection, "O" ring seal, diaphragm Approx 100g Any > 100x 10 ⁶ cycles > 50M0hms at 50Vdc IP67 (when used with a similarly rated connector)		
Pressure Ranges and Passive	mV/V Outputs									
Nominal Pressure, Gauge, Compound range Permissible Overpressure Burst Pressure	ar -0.5 to (ar 2	2 0 -0.5 to 2 4 5	5 -1 to 5 10 12	10 -1 to 9 20 25	20 -1 to 19 40 50	50 -1 to 24 100 120	100 200 250	250 400 500	650	
Output Signals and Supply Vo	oltages									
	Output Supply Voltage			C	Connection Pin Nos					
2-wire 4-20 3-wire 0-5V		9-32Vdc 9-32Vdc		+	+ve Supply Pin 1			ve Supply Pin 2 ve Supply Pin 2 Earth Pin 4		d Earth Pin

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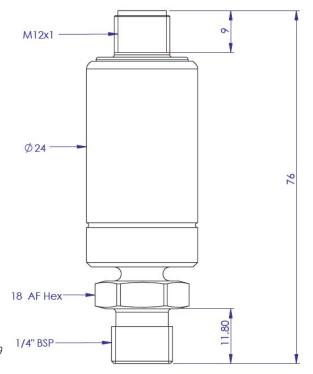
IPS-M12 Series

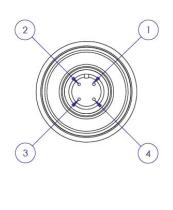
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Part Number	Pressure Rating	Output
IPS-G1000-5M12	0 - 1 Bar G	4 - 20mA
IPS-G1000-6M12	0 - 1 Bar G	0 - 5V
IPS-G6000-5M12	0 - 6 Bar G	4 - 20mA
IPS-G6000-6M12	0 - 6 Bar G	0 - 5V
IPS-GM1P9-5M12	-1 to +9 Bar G	4 - 20mA
IPS-GM1P9-6M12	-1 to +9 Bar G	0 - 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-G2502-5M12	0 - 25 Bar G	4 - 20mA
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 SG*	0 - 5V

^{*} sealed gauge

Mechanical Dimensions





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