



## **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</li>
- 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					Pe	erformand	e					
Supply reverse polarity Electromagnetic compatibility		No damage/no function CE Compliant				0 1 1 1 1 1 1			eresis) ?-wire		5 / FS (BFSL)	/ 59
					30				3-wire	Zero & Full Scale, <±0.5% / FS Zero & Full Scale, <±0.5% / FS		
Mechanical Stability					M	aterial Sp	ecificatior					
Shock		100g / 11s				Housing			316L Stainless Steel			
Vibration		10g RMS (20 - 2000Hz)				"O" ring seals			Viton			
Temperatures & Thermal Effects						Diaphragm			Ceramic Al <sub>2</sub> O <sub>3</sub> 96%			
Media Temperature Ambient Temperature		-40°C to +135°C -20°C to +80°C			М	Media wetted parts			Housing & connection, "O" ring seal, diaphragm Approx 100g Any			
Storage temperature			-20°C to +80°C			Weight Installation position						
Compensated temperature ra	+20°C to +80°C			In								
Thermal Zero Shift (TZS)			<±0.04% /FS/°C			Operational Life			$> 100 x 10^6$ cycles			
Thermal Span Shift		<±0.015% /°C				Insulation resistance			> 50M0hms at 50Vdc			
•					Ei	Environmental protection			IP67 (when used with a similarly rated connector)			
Pressure Ranges and Passiv	e mV/V	Outputs								•		
	bar	1	2	5	10	20	50	100	25	0 400		
	bar	-0.5 to 0	-0.5 to 2		-1 to 9		-1 to 24					
· · · · · · · · · · · · · · · · · · ·	bar	2	4	10	20	40	100	200	40			
Burst Pressure b	bar	4	5	12	25	50	120	250	50	0 650		
<b>Output Signals and Supply V</b>	/oltages											
Wire system Outp	put	Supply Voltage			Сс	Connection Pin Nos						
2-wire 4-20	• • • • •	9-32Vdc						Supply Pin 2 Ground Earth Pin				
3-wire 0-5\	Vdc	9-32Vdc						-ve Supply Pin 2 Earth Pin 4				

\*Calibration data is supplied as a sticker affixed to the product packaging - do not discard

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#### IS09001certified

cynergy3-ips-m12-v2

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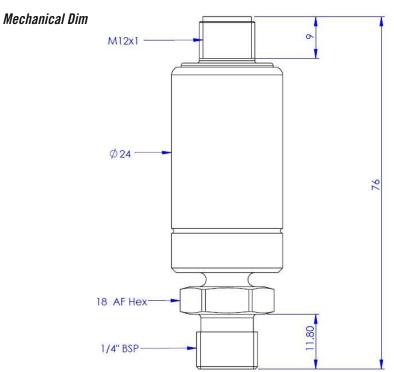


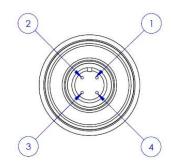
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Part Number	Pressure Rating	Output
IPS-G1000-5M12	0 - 1 Bar G	4 - 20mA
IPS-G1000-6M12	0 - 1 Bar G	0 - 5V
IPS-G6000-5M12	0 - 6 Bar G	4 - 20mA
IPS-G6000-6M12	0 - 6 Bar G	0 - 5V
IPS-GM1P9-5M12	-1 to +9 Bar G	4 - 20mA
IPS-GM1P9-6M12	-1 to +9 Bar G	0 -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





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Sensata: IPS-C0184-5M12