

## **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					Po	ertormand	e				
Supply reverse polarity Electromagnetic compatibility		No damage/no function CE Compliant				Accuracy (Non-Linearity & Hy Setting Errors (offsets)		2-v	vire :		FS (BFSL) Scale, <±0.5% / F Scale, <±0.5% / F
Machanical Ctability					M	laterial Sp	ecification	IS			
Media Temperature Ambient Temperature Storage temperature	ck ation peratures & Thermal Effects ia Temperature ient Temperature age temperature pensated temperature range mal Zero Shift (TZS)		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			Housing "O" ring seals Diaphragm Media wetted parts  Weight Installation position Operational Life Insulation resistance Environmental protection			316L Stainless Steel Viton Ceramic Al <sub>2</sub> O <sub>3</sub> 96% Housing & connection, "O" ring seal, diaphragm Approx 100g Any > 100x 10 <sup>6</sup> cycles > 50M0hms at 50Vdc IP67 (when used with a similarly rated connector)		
Pressure Ranges and Pass	ivo mV/V	Outnute						ra	itea con	nector)	
Nominal Pressure, Gauge, Compound range Permissible Overpressure Burst Pressure	bar bar bar bar bar	1 -0.5 to 0 2 4	2 -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	400 650 650	
<b>Output Signals and Supply</b>	Voltage	S									
	tput	Supply Voltage				Connection Pin Nos					
	20mA	9-32Vdc			+ve Supply Pin 1			-ve Supply Pin 2		und Earth Pin	
3-wire 0-	5Vdc	9-32Vdc			+ve Supply Pin 1 Output Pin 3			-ve Supply Pin 2 Earth Pin 4			

 ${}^*\mathit{Calibration \ data \ is \ supplied \ as \ a \ sticker \ affixed \ to \ the \ product \ packaging \ -do \ not \ discard}$ 

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www.cynergy3.com



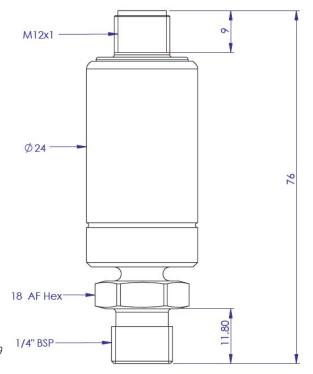
## **IPS-M12 Series**

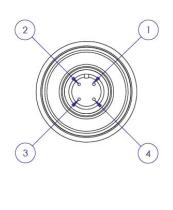
# Industrial Pressure Sensor - Ceramic - with M12 4-Pin Connector

Part Number	<b>Pressure Rating</b>	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

<sup>\*</sup> sealed gauge

#### **Mechanical Dimensions**





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# **Mouser Electronics**

**Authorized Distributor** 

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### Sensata:

 IPS-C0184-6M12
 IPS-G1000-5M12
 IPS-G1000-6M12
 IPS-G1002-5M12
 IPS-G1002-6M12
 IPS-G1003-5M12
 IPS-G1003-5M12
 IPS-G1003-5M12
 IPS-G1003-5M12
 IPS-G2503-5M12
 IPS-G25