



## 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 -14.5 to 5800 psi
- M12 4-pin connector
- 1/4" NPT process connection

The IPSU-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.  $^{\star}$ 

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

<b>Electrical Protection</b>				Per	formand	ce						
Supply reverse polarity	No o	No damage/no function			Accuracy (Non-Linearity & Hyst							
Electromagnetic compatibilit	ty CE (	Compliant		Set	ting Erro	rs (offsets)	2	2-wire	Zero 8	& Full Scale, $<\pm0.5\%$	/FS	
							3	3-wire	Zero 8	& Full Scale, $<\pm0.5\%$	/FS	
Mechanical Stability				Ma	terial Sc	ecification	18					
Shock		100g / 11s			Housing			316L Stainless Steel				
Vibration		10g RMS (20 - 2000Hz)			"0" ring seals			Viton				
Temperatures & Thermal Eff					phragm			Ceramio	ALO.	96%		
Media Temperature	-40	°C to +135°C								nection, "O" ring seal,		
Ambient Temperature	-20	-20°C to +80°C			Media wetted parts				diaphragm			
Storage temperature		-40°C to +125°C			Weight			Approx 100g				
Compensated temperature range +20°C to +80°C				Installation position			Any					
Thermal Zero Shift (TZS) $<\pm0.04\%$ /FS/°C				Operational Life			> 100x 10 <sup>6</sup> cycles					
Thermal Span Shift	< <u>±</u>	<±0.015% /°C			Insulation resistance			> 50M0hms at 50Vdc				
					Environmental protection IP67 (only when used with a				V			
							rated connector)					
<b>Pressure Ranges and Passiv</b>	e mV/V Outputs									•		
	si 15	30	75 1	.50	300	750	1500	37	50	6000		
	, 0, 1											
Permissible Overpressure p	osi 30	60	150 3	300	600	1500	3000	60	00	9750		
Burst Pressure p	osi 60	75	180 3	375	750	1800	3750	75	00	9750		
Output Signals and Supply V	oltages											
Wire system Outp		Supply Voltage		Cor	Connection Pin Nos							
2-wire 4-20		9-32Vdc			+ve Supply Pin 1 -ve S			upply Pin 2 Ground Earth Pin				
3-wire 0-5\	/dc	9-32Vdc		+٧6	e Supply	Pin 1	-ve Sı	ipply Pin	2			

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

Earth Pin 4

Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969

Email:sales@cynergy3.com



Output Pin 3



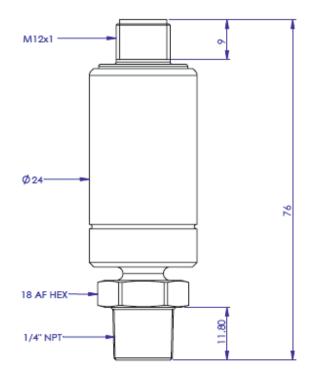
### **IPSU-M12 Series**

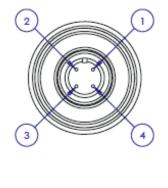
# Industrial Pressure Sensor - Ceramic - with M12 4-Pin Connector

Part Number	Range	Output
IPSU-GP015-5M12	0-15 psi G	4-20mA
IPSU-GP015-6M12	0-15 psi G	0-5V
IPSU-GP030-5M12	0-30 psi G	4-20mA
IPSU-GP030-6M12	0-30 psi G	0-5V
IPSU-C0446-5M12	-14.5 to +150 psi G	4-20mA
IPSU-C0446-6M12	-14.5 to +150 psi G	0-5V
IPSU-GP075-5M12	0-75 psi G	4-20mA
IPSU-GP075-6M12	0-75 psi G	0-5V
IPSU-GP100-5M12	0-100 psi G	4-20mA
IPSU-GP100-6M12	0-100 psi G	0-5V
IPSU-C0447-5M12	-14.5 to +350 psi G	4-20mA
IPSU-C0447-6M12	-14.5 to +350 psi G	0-5V
IPSU-GP150-5M12	0-150 psi G	4-20mA
IPSU-GP150-6M12	0-150 psi G	0-5V
IPSU-GP300-5M12	0-300 psi G	4-20mA
IPSU-GP300-6M12	0-300 psi G	0-5V
IPSU-GP750-5M12	0-750 psi G	4-20mA
IPSU-GP750-6M12	0-750 psi G	0-5V
IPSU-GP1K5-5M12	0-1500 psi SG*	4-20mA
IPSU-GP1K5-6M12	0-1500 psi SG*	0-5V
IPSU-GP3K6-5M12	0-3600 psi SG*	4-20mA
IPSU-GP3K6-6M12	0-3600 psi SG*	0-5V
IPSU-GP5K8-5M12	0-5800 psi SG*	4-20mA
IPSU-GP5K8-6M12	0-5800 psi SG*	0-5V

<sup>\*</sup> sealed gauge

#### **Mechanical Dimensions**





Cynergy3 Components Ltd. 7 Cobham Road Ferndown Industrial Estate Wimborne, Dorset BH21 7PE Telephone +44 (0) 1202 897969

Email:sales@cynergy3.com

www.cynergy3.com

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Industrial Pressure Sensors category:

Click to view products by Sensata manufacturer:

Other Similar products are found below:

75380-05 76053-00000300-01 76053-00000300-05 76061-00000015-01 76062-B00000350-01 76063-00000350-05 76083-05000500-01 76311-05 76577-00000070-01 76584-M00000100-24 77343-24.0H2-01 77343-25.0H2-01 78291-B00000060-01 78303-B00000400-01 78303-B00000400-01 78303-B000000400-05 78316-B00000030-01 78353-B00000020-05 78665-00000014-05 78677-B00000070-05 78678-00000040-01 79279-0000060-01 79296-B00000350-01 79322-00250035-01 79614-30.0H2-14 79670-00000090-15 79700-00002750-01 79917-B00000280-01 80569-00700100-01 81509081 81739-B00000900-01 81807-B00000020-01 MLH010BST01A MLH010BST14A MLH025BGC13B MLH025BSCDJ1292 MLH025BSCDJ1303 MLH750PSCDJ1245 82903-B00000020-01 83250-02500600-05 83271-00000040-04 83278-B00000200-21 83286-00000150-01 83299-00000150-05 83303-00000600-01 83305-00001350-01 83330-00000100-01 83349-00001470-24 83350-04.0HG-05 83350-15.0H2-05 83357-00000030-21