## **IPSLU-M12** series



## Low Range Industrial Pressure Sensor with M12 4-Pin connector



The IPSLU-M12 is suitable for use in a wide range of applications. The probe uses a piezo-resistive silicon sensor, giving excellent media compatibility within an oil filled 316L stainless steel housing

The electronics incorporate a microprocessor based amplifier, requiring no adjusting and giving stable electronics, especially in high vibration/shock applications.

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

Custom versions can be made for particular applications.

- Piezo-resistive sensor
- Stainless steel body & diaphragm
- Accuracy <±0.25% FS BFSL</li>
- Various outputs including Volts and mA.
- Pressure ranges from 1 psi to 15 psi
- Gauge or Absolute pressure reference
- 1/4"NPT process connection

#### Options available on the IPSLU-M12 pressure transmitter.

Pressure range Output type

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

#### Suitable applications

HVAC Mechanical engineering
Pneumatics Environmental engineering
Rainwater harvesting Automotive testing
Agricultural machinery Tank gauging

Laboratory testing IBC, IBC Tote or pallet tank

#### **Performance**

Accuracy (Non-Linearity & Hys	steresis)<±0.25%	/ FS (BFSL) for gauge refererence
Setting Errors (offsets)	2-wire	Zero & Full Scale, <±0.5% / FS
	3-wire	Zero & Full Scale, <±0.5% / FS
Permissible Load	2-wire	$R_{max} = [(Supply-9min)/0.02]\Omega$
	3-wire	$R_{min} = 10 k\Omega$
Influence Effects	Supply	<0.005% FS / 1V
	Load	0.05% FS0 / kO

## **Material Specifications**

Housing 316L Stainless Steel "O" ring seals Viton

Diaphragm 316L Stainless Steel

Media wetted parts Housing & connection, "0" ring seal,

diaphragm

#### Miscellaneous

Current consumption 2 -wire Limits at 28mA 3-wire Typical 6mA

Weight Approx 3.5oz (100g)

Installation position Any, small zero shift when tilted through

90°

Operational Life  $> 100 \times 10^6$  cycles Insulation resistance > 50 MOhms at 50 Vdc

Environmental protection IP67 (only when used with a similarly

rated connector)

## **Electrical Protection**

Supply reverse polarity No damage/no function Electromagnetic compatibility CE Compliant

## **Mechanical Stability**

Shock 100g / 11s Vibration 10g RMS (20 - 2000Hz)

## **Temperatures & Thermal Effects**

Cynergy3 Components Ltd.
7 Cobham Road
Ferndown Industrial Estate
Wimborne, Dorset BH21 7PE
Telephone +44 (0) 1202 897969
Email:sales@cynergy3.com

ISO9001 CERTIFIED



www.cynergy3.com



# **IPSLU-M12** series

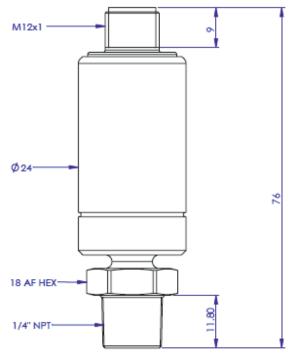
# Low Range Industrial Pressure Sensor with M12 4-Pin connector

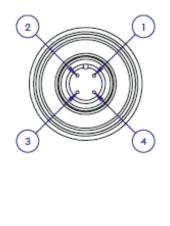
Pressure Ranges								
Nominal Pressure, Gauge,	psi	0.75	1.5	3.75	7.5	11.25	15	
Permissible Overpressure	psi	30	30	30	75	75	75	

Output Signals and Supply Voltages					
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	

David N.a.	D	0
Part No	Pressure Range	Output
IPSLU-GP001-5M12	0-1 psi G	4-20mA
IPSLU-GP002-5M12	0-2 psi G	4-20mA
IPSLU-GP005-5M12	0-5 psi G	4-20mA
IPSLU-GP008-5M12	0-8 psi G	4-20mA
IPSLU-GP010-5M12	0-10 psi G	4-20mA
IPSLU-GP015-5M12	0-15 psi G	4-20mA
IPSLU-GP001-6M12	0-1 psi G	0 to 5V 3Wire
IPSLU-GP002-6M12	0-2 psi G	0 to 5V 3Wire
IPSLU-GP005-6M12	0-5 psi G	0 to 5V 3Wire
IPSLU-GP008-6M12	0-8 psi G	0 to 5V 3Wire
IPSLU-GP010-6M12	0-10 psi G	0 to 5V 3Wire
IPSLU-GP015-6M12	0-15 psi G	0 to 5V 3Wire

#### **Mechanical Dimensions**





ISO9001 CERTIFIED www.cynergy3.com