



# HERMETIC PRESSURE SENSORS 3PP8 SERIES

5 Vdc Supply, Ratiometric Output

### WORLD CLASS PERFORMANCE

The 3PP8 series sensor uses silicon MEMS strain gage technology. The strain gage is glass bonded to a stainless steel diaphragm. Additional benefits include digital temperature compensation, EEPROM memory and self diagnostic capability. It is ideal for the most demanding applications.

Sensata Technologies has been a leading global supplier of pressure sensors and switches for over 50 years.

### Features & Benefits

- High accuracy
- Stainless steel housing
- Hermetically sealed
- Low cost
- Capable of pressure ranges up to 15000 psi
- Small size

### Applications

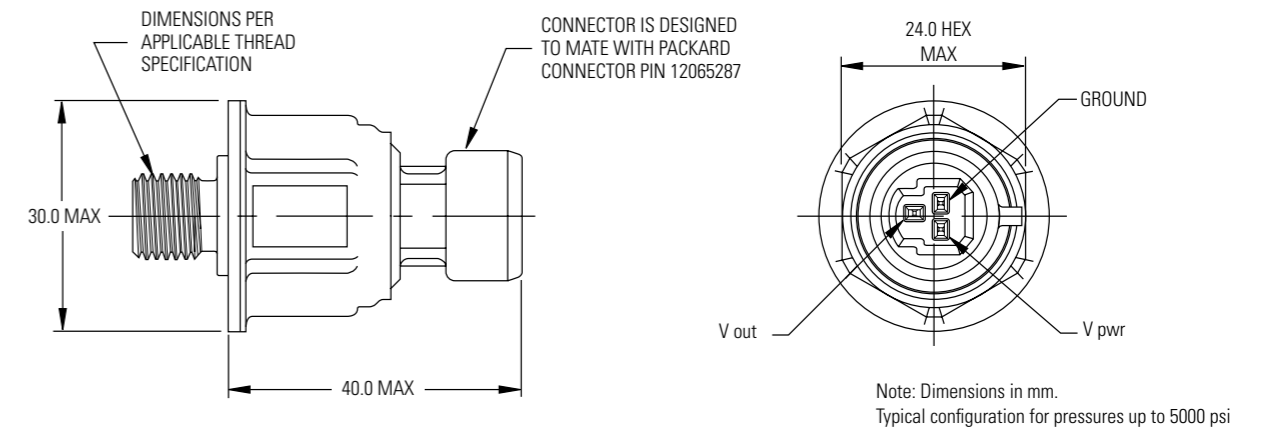
- Agriculture & Construction Equipment
- Vehicle Systems
- CO<sub>2</sub> Compressors
- Pumps
- Hydraulics & Pneumatics
- Engine Controls & Monitors
- Air Conditioning & Refrigeration

### Technical Specifications

Performance		Pressure Ranges
Accuracy: .....	±0.7% at 25°C span (linearity, hysteresis, repeatability, and calibration)	0-500 psis to 0-15000 psis
Total Error Band		
0°C to 50°C .....	±1.0% span	
-40°C to 125°C .....	±1.7% span	
Operating Temperature .....	-40°C to 125°C	
Storage Temperature .....	-40°C to 150°C	
Physical		Electrical
Proof .....	2X F.S. 500 - 3500 psi 1.5X F.S. 3500 - 15000 psi	Supply .....
Burst .....	3X Full Scale (Typical)	Output .....
Cycle Life .....	10 Million + F.S. Cycles	Supply Current .....
Vibration .....	26g rms 20-2800 Hz Random Profile	Output Load .....
Drop .....	1.5 m	Output Response Time .....
		EMC 1-400MHz .....
		400MHz-1GHz .....
		ESD .....
		Supply Overvoltage Protection .....
		Supply Reverse Voltage Protection .....
		Output Short Circuit Protection .....

The World Depends on Sensors and Controls

### Dimensions



### Standard Offerings

#### Pressure Connections (24mm hex body)

- 1/8" NPTF male (for pressures up to 10,000 psi)
- 1/4" NPTF male (for pressures up to 10,000 psi)
- 3/8"-24 UNF male o-ring
- M10 x 1 male o-ring
- M12 X 1.5 male o-ring

For other pressure connections please contact Sensata Technologies

#### Electrical Connection

- Standard Packard Metri-Pack™ (for pressures up to 5000 psi)
- AMP MQS™
- AMP EJII™ (for pressures over 5000 psi)

For other electrical connections please contact Sensata Technologies

#### Pressure Ranges

- 0 - 500 psis
- 0 - 1000 psis
- 0 - 3000 psis
- 0 - 5000 psis
- 0 - 7500 psis
- 0 - 10000 psis
- 0 - 12500 psis
- 0 - 15000 psis

For other pressure ranges please contact Sensata Technologies