



3PP8 Series

Hermetic Pressure Sensor

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 & 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
- CO₂ Compressors
- Pumps
- Hydraulics & Pneumatics
- Engine Controls & Monitors
- Air Conditioning & Refrigeration

Technical Specifications

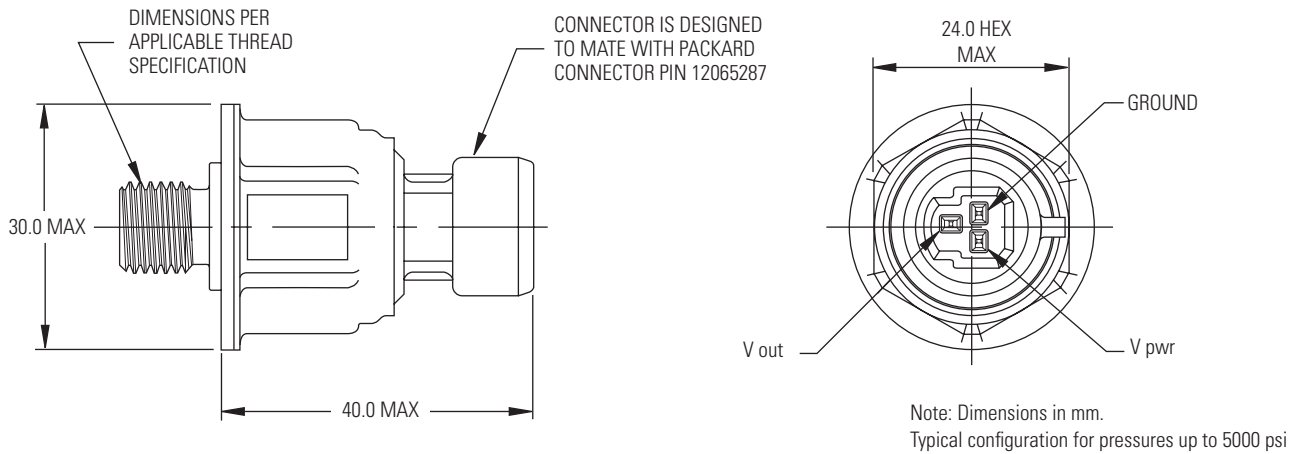
Performance	Pressure Ranges
Accuracy: ±0.7% at 25°C span (linearity, hysteresis, repeatability, and calibration)	0-500 psis to 0-15000 psis
Total Error Band	Electrical
0°C to 50°C ±1.0% span	Supply 5 ± 0.25 Vdc
-40°C to 125°C ±1.7% span	Output 0.5 to 4.5 Vdc typical
Operating Temperature -40°C to 125°C	Supply Current 15 mA max
Storage Temperature -40°C to 150°C	Output Load 1.1K ohm pull-up typical
Physical	Output Response Time 10 ms max
Proof 2X F.S. 500 - 3500 psi	EMC 1-400MHz 100 V/m
..... 1.5X F.S. 3500 - 15000 psi	400MHz-1GHz 50 V/m
Burst 3X Full Scale (Typical)	ESD 15 kV air discharge (human body model)
Cycle Life 10 Million + F.S. Cycles	Supply Overvoltage Protection 16 Vdc
Vibration 26g rms 20-2800 Hz Random Profile	Supply Reverse Voltage Protection -16 Vdc
Drop 1.5 m	Output Short Circuit Protection 0 V / 16 Vdc Ground / Supply

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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 EJI™ (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



The World Depends on Sensors and Controls

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