



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 & 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

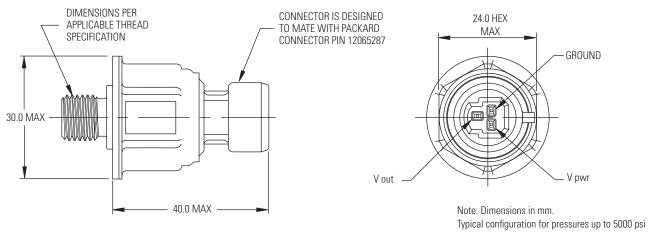
Performance	Pressure Ranges
Accuracy:±0.7% at 25°C span (linearity, hysterisis, repeatability, and calibration)	0-500 psis to 0-15000 psis
Total Error Band	Electrical
0°C to 50°C ±1.0% span	Supply $5 \pm 0.25 \text{Vdc}$
-40°C to 125°C ±1.7% span	Output 0.5 to 4.5 Vdc typical
Operating Temperature40°C to 125°C	Supply Current 15 mA max
Storage Temperature40°C to 150°C	Output Load1.1K ohm pull-up typical
Physical	Output Response Time 10 ms max
Proof	EMC 1-400MHz
Burst 3X Full Scale (Typical)	ESD
Cycle Life 10 Million + F.S. Cycles	(human body model)
Vibration 26g rms 20-2800 Hz	Supply Overvoltage Protection16 Vdc
Random Profile	Supply Reverse Voltage Protection16 Vdc
Drop 1.5 m	Output Short Circuit Protection 0 V / 16 Vdc Ground / Supply

The World Depends on Sensors and Controls

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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 MQSTM
- AMP EJII™ (for pressures over 5000 psi)

For other electrical connections please contact Sensata Technologies

Pressure Ranges

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

For other pressure ranges please contact Sensata Technologies



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