



## HEAVY DUTY PRESSURE SENSOR

### Description

New heavy duty absolute pressure sensors can monitor vacuum and/or pressure and excel at maintaining accuracy across a wide temperature range. Sensors are available in aluminum or stainless steel and can be furnished with custom mounting.

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The Filter Monitoring  
Experts

### Applications

- Filter Restriction
- Diesel & Gas Engines
- Pumps, Compressors & Blowers
- Brake Pressures
- Hydraulics
- Liquid Level

### Markets Served

- Automotive
- Truck and Bus
- Construction
- Agriculture
- Industrial
- Marine

### Features

- Linear Output
- Temperature Compensated
- Vacuum / Pressure in One Package
- Dry and Wet Media
- Custom Mounting
- Sealed FCI Connector

## Technical Specifications

### Pressure Ranges (absolute)

0-30, 100, 150, 300 PSIA (0-2, 6.9, 10.3, 20.7 Bar)

### Electrical

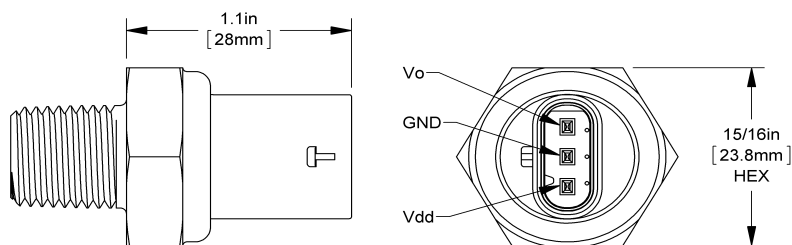
Supply Voltage (Vdd) ..... 5 ± 0.5 Vdc  
Supply Current ..... 10mA MAX  
Output Voltage (Vo) ..... 10 to 90 %Vdd (0.5 to 4.5 Vdc)  
Output Impedance ..... 200 ohm MAX  
Output Current ..... 2.5 mA MAX  
Overvoltage ..... 30 V Momentary Contact  
Reverse Polarity ..... 30 V Momentary Contact

### Performance

Accuracy<sup>1</sup> ..... 2.5 %FS  
Resolution ..... 0.1 to 0.02 %FS  
Lifetime Drift ..... 0.5 %FS MAX  
Repeatability ..... 0.25 %FS MAX  
Response Time ..... ~ 1 ms FS  
Operating Temperature ..... -40°C to 140°C  
Storage Temperature ..... -50°C to 150°C  
Burst Pressure ..... 3X Operating Pressure  
Proof Pressure ..... 2X Operating Pressure  
Service Life ..... 10 Million Cycles FS  
Vibration ..... 10-2000 Hz at 10 g's  
Ingress Protection ..... IP66/67

### Physical

Media ..... Diesels and Bio-Diesel Fuels, Gasoline, Hydraulic Fluids, Oils, Air, Gases  
Materials External ..... PPS, Aluminum or Stainless Steel  
Materials Wetted ..... Ceramic (Alumina), Au/Sn (eutectic, solder), Glass (Pyrex), Silicon, fluorosilicone  
Electrical Connection ..... APEX SensoMate 1.2 (3-Way)  
Pressure Connection Port ..... Various Configurations Available



<sup>1</sup>(Includes all error for hysteresis and linearity over the entire operating temperature range. Does not include lifetime drift.)