LOW PRESSURE SENSOR

Description

New low pressure sensors can monitor vacuum or pressure and excel at maintaining accuracy across a wide temperature range. Sensors are available in multiple vacuum or pressure settings, an integrated AMPSEAL 16 electrical connection, and can be furnished with custom mounting.

Applications

- Air Filter Restriction
- HVAC/Cabin Pressure
- Exhaust Pressure
- Industrial Filters
- Crankcase Pressure

Markets Served

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

Features

- Linear Output
- Temperature Compensated
- Vacuum or Pressure
- Custom Mounting
- Sealed AMP Electrical Connector

Technical Specifications

Pressure Ranges (gage)

0-40 inH2O (0-100mBar)
(other customer ranges available if volume permits)

Electrical

Supply Voltage (Vdd) ........... 5 ± 0.25 Vdc (12 & 24Vdc optional)
Supply Current ............... 5mA MAX
Output Voltage (Vo) .......... 10 to 90 %Vdd (0.5 to 4.5 Vdc)
Output Impedance .............. 250 ohm MAX
Output Current ................ 0.040 mA MAX
Overvoltage ................... 45 V Momentary Contact
Reverse Polarity ............... 36 V Momentary Contact

Performance

Accuracy1 .................. 2.5 %FSO
Resolution .................. 0.12 %FSO
Lifetime Drift ............... 0.5 %FSO MAX
Repeatability ............... 1.5 %FSO MAX
Response Time ............. 2 ms FSO MAX
Operating Temperature ......-40°C to 125°C
Storage Temperature ......-40°C to 125°C
Burst Pressure ............. 30 psi
Proof Pressure .............. 20 psi
Service Life ............... 10 Million Cycles FSO
Vibration .................. 10-2000 Hz at 10 g’s
Ingress Protection .......... IP66

Physical

Media .......................... Dry Gases (check with manufacturer)
Materials External ......... PA66-GF13
Materials Wetted ............ Thermoset Plastic, Glass (Pyrex), Silicon, epoxy, RTV, Pyrex, UV Silicone Gel and NBR
Electrical Connection .......... AMPSEAL 16 (3-Way)
Pressure Connection Port .... 1/8-27 NPT (F), 3/8-24 (F) Straight Thread, M10x1 (F). Various adaptor fittings available

Engineered Products Co.
TS16949 / ISO9001 / ISO14001 Certified Company

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