ENGINEERED PRODUCTS CO.

The FILTER MINDER - Expertly Monitoring Filters for Over 30 Years

www.filterminder.com



LOW PRESSURE SENSOR

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The Filter Monitoring Experts

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
- Liquid Level
- 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 inH₂0 (0-100mBar) (other customer ranges available if volume permits)

Electrical

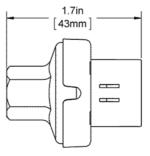
| Supply Voltage (Vdd) | 5 ± 0.25 Vdc (12 & 24Vdc optional) |
|----------------------|------------------------------------|
| Supply Current | 5mA MAX |
| Output Voltage (Vo) | 10 to 90 %Vdd (0.5 to 4.5 Vdc) |
| Output Impedance | 250 ohm MAX |
| Output Current | 0.040 mA MAX |
| Overvoltage | 45 V Momentary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

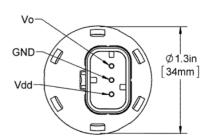
Performance

| Accuracy ¹ | 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 | IP65 |

Physical

| Media | . Dry Gases, select liquids (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 |





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