Vapor Optical Pressure Sensor

THE SOLID STATE AND RELIABLE SOLUTION TO OLD MECHANICAL SWITCH PROBLEMS

The Vapor Optical Pressure Sensor (OPS) eliminates many of the problems with mechanical pressure wave switches by replacing mechanical contacts with optical sensing and solid state switching.

Improve the reliability of the sensitive edge assemblies on your bus fleet. The simple yet extremely robust Optical Pressure Sensor design reduces the time and expense of replacing mechanical pressure wave switches. Easily specified for new Vapor door systems or replacement of existing mechanical pressure wave switches.

Vapor Optical Pressure Sensor qualification test results are so impressive that it is offered with a limited warranty against defects in material and workmanship of three (3) years from date of shipment.

Next Generation Vapor Sensors Eliminate:

• Malfunctions due to contact contamination GONE!
• Loss of calibration due to ambient orifice blockage GONE!
• Erratic performance due to non-standard orientation GONE!
• Lack of diagnostic tools GONE!

• Longer-life direct replacements for existing mechanical pressure wave switches
• LEDs for easy status indication
The High-Sensitivity, Solid State Solution for Old Mechanical Problems

Precise, positive air pressure sensing, even with low activation force, detects contact from almost any angle. Vapor Optical Pressure Sensor features include LED status and convenient test indication, with a simple, long-life design that outperforms mechanical switch or membrane models particularly in severe applications where shock and vibration are common.

- Optical sensing for longer life
- Immune to shock and vibration
- Performance independent of orientation
- Tamper-proof housing and adjustments
- Integral LED status indication
  - Amber: sensor operational
  - Green: obstruction detected, “ON” for functional test

Specifications

Power supply: 10 – 26VDC
Temperature range: -40c to +85c

Output Signal

Output #1: low (ground)
Output #2: 12/24VDC
Design life: 6 years
Pressure Measurement: Adjustable 4 to 100mmWC

Vapor Bus International is a leader in the design and manufacture of passenger door equipment and systems for buses, rail passenger cars and locomotives. Founded in 1903, today Vapor is the principal supplier to the major North American bus manufacturers and a subsidiary of the Wabtec Corporation and Faiveley Transport, leading global providers for the passenger transit and freight rail industries.

Contact Your Vapor Representative for More Information

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