

**MEMS-BASED FIBER OPTIC  
PRESSURE SENSOR  
FOR THE HARSHTEST ENVIRONMENTS**

Compatible with Opsens' WLPI series signal conditioners

**Key Features**

- Robust packaging
- EMI/RFI immunity; intrinsically safe
- Excellent accuracy (0.1%)
- Small size (6.35 mm with housing, 2.5mm or smaller without housing,)
- Low thermal shift ( <0.01%FS/oC)

**Applications**

- High temperature environments
- Industrial process-control and monitoring applications
- High voltage environments
- Hazardous environments
- Aerospace and Defense
- Static or dynamic pressure measurements conducted in confined spaces, hazardous or strong EMI/RFI/MRI environments

**Description**

Opsens' OPP-B are MEMS-based fiber-optic pressure sensors designed for demanding applications. The OPP-B model is a bare fiber optic pressure sensor (no metal housing) for applications requiring minimally invasive in-situ pressure measurement.

Combined with Opsens WLPI signal conditioning technology (Patent #7,259,862) and the inherent advantages of fiber optic, the OPP-B delivers long term accuracy, durability, low drift and high fidelity pressure measurements in the harshest environments such as EMI, RFI, high voltage, combustive/explosive and high temperature.

The OPP-B pressure sensor is available with different cable options that may be customized to customer specific requirements.

**Opsens**

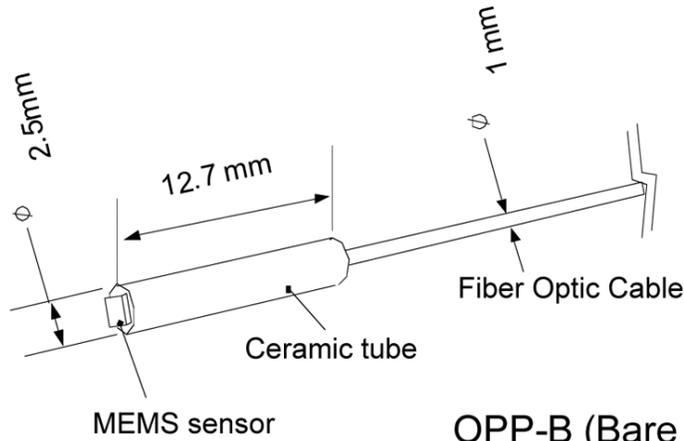
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OPP-B (Bare pressure sensor)

## Specifications

Pressure range	50 psi to 1000 psi
Resolution	Range dependent (< 0.01% F.S. typical)
Precision	± 0.1% F.S.
Thermal coefficient of Zero	< 0.01% F.S. / °C
Proof pressure	200% F.S
Operating temperature	Up to 100°C (Other ranges available upon request)
EM/RF/MR/MW susceptibility	Complete immunity
Cable length	1.5 meters standard (Other lengths available)
Optical connector	SC standard
Cable sheathing	Customer specifications
Signal conditioner compatibility	All Opsens WLPI signal conditioners