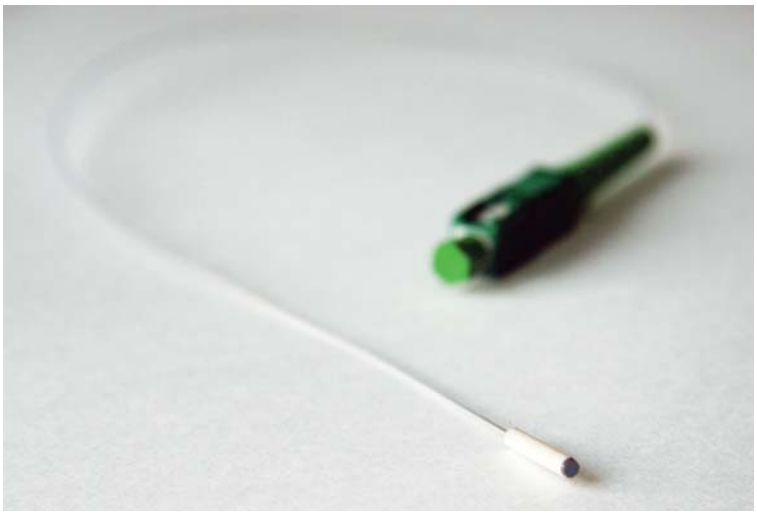

MEMS-BASED FIBER OPTIC PRESSURE SENSOR FOR THE HARSHEST ENVIRONMENTS

Compatibel with Opsens' WLPI series of 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 environment
- Hazardous environments
- Aerospace and Defense
- Static or dynamic pressure measurements conducted under confined space, hazardous and strong EMI/RFI/MRI environments

Description

Opsens' OPP-B are MEMS-based fiber-optic pressure sensors designed for demanding applications. he. 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† and with the inherent advantages of fiber optic, the OPP-B deliver long term accuracy, durability, low drift and high fidelity pressure measurements in the harshest environments such as in presence EMI, RFI, high voltage, combustive/explosive and high temperature.

The OPP-B pressure sensor is available with different cables options customized according to client specific needs.

† Patent pending

Opsens

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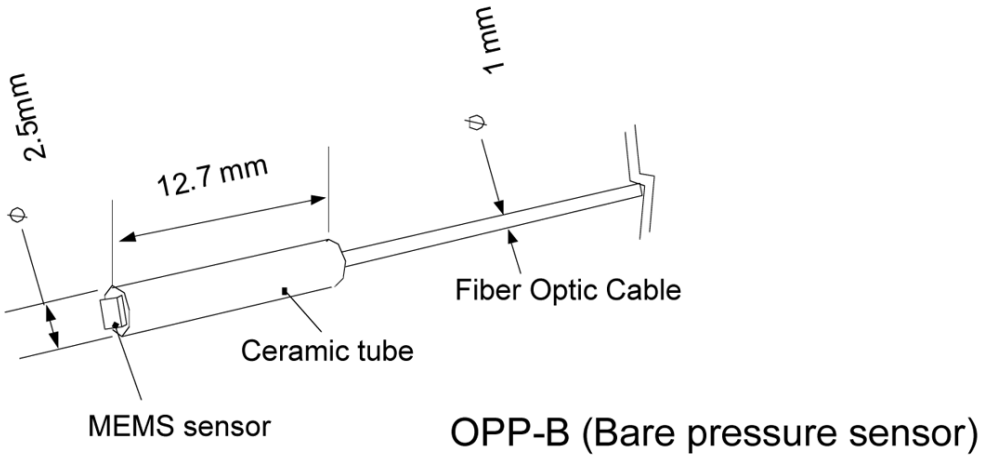

OPP-B (Bare pressure sensor)

Specifications

Pressure range	From 0-1 bar to 0-350 bar absolute (0-15 psia to 0-5000 psia)
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 range available on demand)
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

IMP0029 OPP-B Rev 1.5 Printed in Canada