

Fiber Bragg Grating based spot-weldable strain sensor with small dimensions. This sensor is equipped with one FBG. On request, this sensor can be longer with an array of FBG's to measure the strain at multiple points.

Optional temperature compensation can be integrated.

- For surface mounting by spot-welding, or gluing to the surface
- Double ended
- No pre-straining required during installation
- Can be mounted on curved objects



Parameter	Performance
Sensitivity	1.2pm/ $\mu\epsilon$
Measurement range	$\pm 1500\mu\epsilon$
Accuracy	<0.5% Full Scale
Precision	<0.25% Full Scale
Operational temperature range	-20 to +60 °C
Weight	50g
Material	Stainless Steel 304 0.2mm thickness
FWHM	< 0.3 nm
Reflectivity	40 %
Insertion loss	< 0.1 dB
FBGs	1
Cable length ¹	1m
Connector options	FC/APC, LC/APC, open end

¹- Other cable length on request.

Mounting instructions

Sensor is always surface mounted. This can be done by spot-welding or with an adhesive. Pre-straining of the sensor is not required.

