

DP 100 T - Displacement sensor

General purpose Fiber Bragg Grating based displacement sensor. The double ended spring loaded displacement sensor is optimized to have a high sensitivity.

The stainless steel sensor design is ruggedized and robust such that it can be used in a wide variety of indoor and outdoor applications



- High sensitivity combined with intrinsic temperature compensation
- Robust stainless-steel design for harsh environment
- Displacement range adjustable at installation (0/+100mm, -10/+90mm, -20/+80mm, etc)

Parameter	Performance
Sensitivity	70 pm/mm
Accuracy	300 μ m
Precision	\pm 120 μ m
Maximum stroke	100 mm
Weight	< 1 kg
Material	Stainless Steel 1.4404/1.4301
Operational temperature range	-20 to +60 °C
Protection	IP 67
FWHM	< 0.3 nm
Reflectivity	40 %
Insertion loss	< 0.1 dB
FBGs	2
Connector options	FC/APC, LC/APC, open end ¹

1. Other connector options available on request.

Mounting instructions

When mounting the displacement sensor, it is important for the lifespan of the sensor that no unwanted forces are applied to the sensor.

It is therefore recommended to secure the sensor with, for example, ball joints, or another similar mounting systems.

