

DS01-Fiber grating displacement sensor

Description

The Idealphotonics DS-01 and DS-02 are designed to monitor the extension and compression displacement respectively. Double FBGs are packaged inside the housing. One FBG is used of its strain sensitivity to monitor the displacement. The second FBG is used as temperature compensation. The sliding rod can move freely over a customized distance from 10mm to 350mm.



DS-01



DS-02

Feature

- Flexible in cascading several displacement sensors in one array
- Two cables at both ends
- High robust and high repeatability
- Customized distance

Application

- Positioning measurement
- Geological movement detection

Specification

Parameters	Value	Unit
Wavelength Range	1510~1590	nm
Displacement Range	10~350	mm
Resolution	0.05%FS	mm
Displacement Accuracy	1%FS	mm
Temperature Resolution	0.1	°C
Temperature Accuracy	1	°C

Operating Temperature	-20~85	℃
Standard Dimension	280(L)*20(W)*25(H)	mm
Connector	FC/APC *	Customized
Material	AlMg3	---

Calibration

