PRODUCT INTRODUCTION

Fibre Optic Sensor

Fibre Optic Strain Sensor YOSC-OFS-M1

YOSC-OFS-M1 fibre optic grating embedded strain sensor can be widely used for the construction and long-term safety monitoring of surface layer strain and stress in various industrial and civil building steel structures.

Features

- High precision, high resolution, measurable positive and negative strains
- Naturally explosionproof, with good temperature resistance, corrosion resistance, aging resistance and electromagnetic interference resistance
- High stability, minimal temperature drift, and high survival rate
- Easy to build distributed sensor networks
- Stainless steel material packaging
- Easy to install and reusable
- Fibre optic dual end outlet, capable of series measurement
- Customizable

Applications

- Suitable for strain monitoring of surfaces such as buildings, bridges
- Strain monitoring on the surface of large steel structures

Parameters

Items	YOSC-OFS-M1
Range	±1500με
Resolution	0.1με
Accuracy	0.3%FS
Measuring gauge length	100mm(customizable)
Working temperature	-40°C~80°C
Center wavelength	C-band(1525-1565nm)
Peak reflectivity	>90%
External dimension	ϕ20×120mm
Weight	Approximately 300g~800g
Material	Stainless steel
Fibre optic cable type	Armored optical cable
Fibre optic interface	FC/APC or fusion welding
Installation method	Welding, bolt fixation, etc.