

S04 FBG Patch Strain Sensor

Description

Utilizing Fiber Bragg Grating (FBG) measurement technology combined with T&S's patented sensor packaging technology, the FBG patch strain sensor enables precise micro-strain measurements without the need for calibration.

Features

- Immune to electromagnetic interference
- Compact size and lightweight design
- Long operational lifespan
- Easy to install



Specification

Performance Parameters	Unit	Specification
Strain Coefficient	pm/ $\mu\epsilon$	~1.2
Strain Error	%	<1
Operating Temperature	°C	-40 to +80
Strain Range	$\mu\epsilon$	-2500 to +2500
Gauge Length	mm	22±1

Mechanical Parameters	Unit	Specification
Dimensions	mm	34.5×8×0.8
Weight	g	~2
Material	-	Stainless steel
Installation	-	Spot welding or adhesive bonding
Fiber Type	-	SMF-28e
Protective Sleeve Type	-	Φ0.9 mm tubing
Pigtail Length	m	2 on each side

Optical Parameters	Unit	Specification
Center Wavelength	pm/ $\mu\epsilon$	~1.2
Reflectivity	%	<1
Half-Power Bandwidth	°C	-40 to +80
Side Mode Suppression Ratio (SMSR)	$\mu\epsilon$	-2500 to +2500
Connector	m	FC/APC