

PSS01 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 - +80
Strain Range	$\mu\epsilon$	-2500~+2500
Gauge Length	mm	22 $\pm$ 1
Mechanical Parameters	Unit	Specification
Dimensions	mm	34.5 $\times$ 8 $\times$ 0.8
Weight	g	~2
Material	-	Stainless steel
Installation	-	Spot welding or adhesive bonding
Fiber Type	-	SMF-28e
Protective Sleeve Type	-	Φ 0.9mm tubing
Pigtail Length	m	2 on each side
Optical Parameters	Unit	Specification
Center Wavelength	nm	1525 ~ 1565
Reflectivity	%	>75
Half-Power Bandwidth	nm	<0.3
Side Mode Suppression Ratio (SMSR)	dB	>15

Information and specifications are subject to change without notice.
Please visit www.china-tscom.com for more information

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Connector	-	FC/APC
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