

Athermal Mountable Strain Sensor AMS-10

Description

The AMS-10 athermal strain sensor is a Fiber Bragg Grating based sensor with a special design. It decreases greatly the strain caused by the thermal expansion of stainless steel structures. It is welded on the surface of SS structures



Feature

- Robust and high stability
- Very low temperature sensitivity
- Immunity to EMI/RFI

Specification

Parameter	Unit	Value	Remark
Center Wavelength	nm	1510-1590	
Strain range	$\mu\epsilon$	+/-1500	customized
Accuracy		1‰ F.S	
Distance between two anchors	mm	65	
Temperature cross sensitivity	$\mu\epsilon/^\circ\text{C}$	≤ 1	After Installation
Operating temperature range	$^\circ\text{C}$	-10~80	customized
Dimension	mm	$\phi 12 * 83$	
Connector	--	FC/APC	customized
Pigtail		3mm armored cable	

Strain Characteristic

