

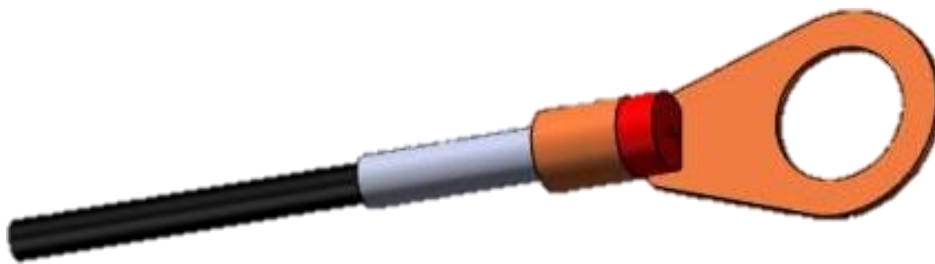
SNR-T120

FBG Temperature Sensor

Product Description

The SNR-T120 sensors are advanced FBG fiber optic sensors of the Power Technologies™ Fiber Optic Sensing System series that can measure temperature with high accuracy and stability. These sensors have many advantages over conventional ones, such as high sensitivity, high dielectric strength, immunity to electromagnetic interference, and multiplexing capability. These features make them suitable for harsh environments and long-distance transmission.

The SNR-T120 sensors are the perfect choice for fiber optic temperature sensing systems, as they can be applied to various fields, such as power transmission and distribution, oil and gas, aerospace, civil engineering, and more. The SNR-T120 sensors can also be integrated with other FBG sensors, such as strain, pressure, and vibration, to provide comprehensive monitoring solutions for different applications.



SNR-T120

FBG Temperature Sensor

Specification

Item	Detail	Description
Sensor Head	Mounting	Bolt Mounted
	Center Diameter	M4 / M5 / M6 / M8 / M10 / M12 / M14
Fiber Tail	Outer Diameter	3.0 mm
	Length	1 m / 2 m / 3m / 4m
Performance	Maximum Distance	15 km
	Measurement Range	-55 °C ~ 120 °C
	Measurement Resolution	0.1 °C
	Measurement Accuracy	±1.0 °C
Optical Characteristics	Transmission Mode	9/125um Single-Mode
	Wavelength Range	1525 nm ~ 1565 nm
	Sensors per Channel	12
	Fiber Connector	LC/APC
Dielectric Characteristics	Insulation voltage	≥12 kV/AC
Environmental Characteristics	Operation Temperature	Long Term Max. 105 °C Short Term Max. 120 °C
Standards of Manufacturing / Testing / Compliance	Dielectric	IEC 60060 GB/T 3048.8-2007
	Environmental	IEC 60811-401 GB/T 2951.12-2008
	Flame Retardant	IEC 60332-1-2 GB/T 18380.12-2022
	LSZH	IEC 60754 IEC 61034-2 GB/T 17650.1-2021 GB/T 17650.2-2021 GB/T 17651.2-2021