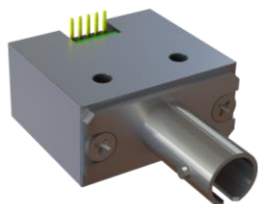


# OEM Fiber Optic Temperature Sensor for Medium Voltage Applications


## Miniature – Low cost – Reliable



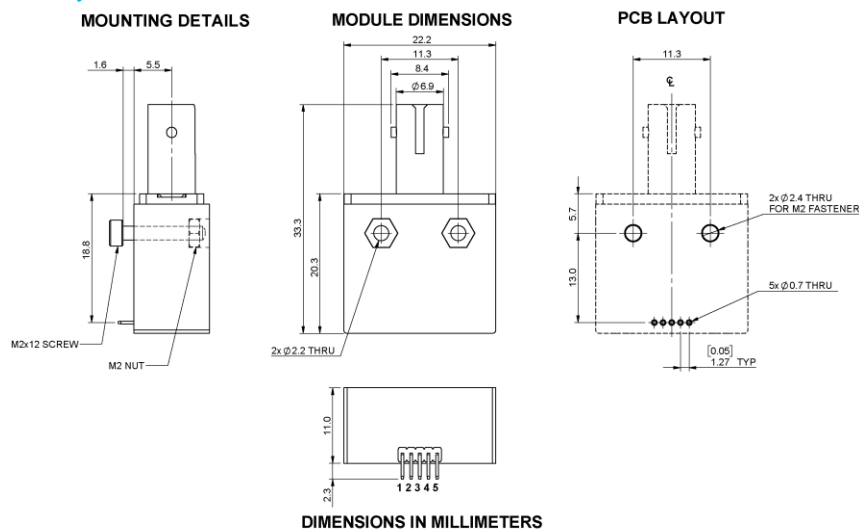
### OEM Fiber Optic Temperature Transmitter

OSENSA's FTX-001-OEM is the world's smallest form-factor fiber optic temperature transmitter module for OEM applications like medium voltage switch gear, generator, motor, and bus bar monitoring. It solders directly to a printed circuit board with a 5-pin header and talks to a microcontroller over Serial Modbus or optional SPI interface.

### Module Specifications

	FTX-001-OEM
Measurement Range	-40 to +200°C
Operating Temperature	-40 to +65°C
Accuracy	± 1.0°C
Resolution	0.1°C
Supported Temperature Probes	PRB-PF1 and PRB-GB3
Light Source	Blue
Optical Interface	ST Connector
Digital Interface	Serial Modbus (optional SPI)
Product Compliance	RoHS 

### Mechanical Layout



### Electrical Interface

Pin	Modbus	SPI	Description	Notes
1	GND	GND	Ground connection. No reverse polarity protection	-
2	MS	CS	Module/Chip select. Hold high (3.3V) to ignore coms	3.5V max
3	+5V	+5V	Regulated 5VDC power, 100mW continuous, 350mW peak	6.0V max
4	RX	MISO	UART Receive / Master Input (3.3V)	3.5V max
5	TX	SCLK	UART Transmit / Serial Clock Line (3.3V)	3.5V max

#### TECHNICAL SUPPORT

OSENSA Innovations offers on-site support, commissioning, and training for all of its products. For immediate assistance with any technical issue, please contact [support@osensa.com](mailto:support@osensa.com) or call 1-888-732-0016.

#### WARRANTY INFORMATION

OSENSA Innovations stands behind its products and services. All fiber optic temperature probes and signal conditioners ship with a full one year repair or replacement warranty. You may also purchase an extended five year warranty. Some conditions apply.

#### CUSTOM OEM SOLUTIONS

OSENSA offers cost-effective design and consulting services at discounted rates for high-volume OEM customers. Let the engineering team at OSENSA Innovations help you rapidly develop custom probes for your process control application. OSENSA's team has many years of experience designing fiber optic temperature probes for various industrial environments.

#### FURTHER INFORMATION

For more information on any of our products or services please visit our website: [www.osensa.com](http://www.osensa.com) or email: [info@osensa.com](mailto:info@osensa.com).

