



PTS Fiber System

FIBER OPTIC LINEAR HEAT DETECTION





Features

- Unique zoning capabilities. A single length of sensor can contain up to 2000 zones.
- Multiple alarm initiating criteria by zone.
- Available with 1, 2 or 4 channels.
- Capable of continuous temperature monitoring in ranges up to 10km (32,800 ft.).
- LAN Interface (TCP/IP) enables remote access from multiple locations.

FUNCTIONAL SPECIFICATIONS								
Distance range ⁽¹⁾	3281 ft (1km)	6560 ft (2km)	13120 ft (4km)	19685 ft (6km	26246 ft (8km)	32800 ft (10km)		
Optical wavelength	1064 nm							
Minimum sampling interval	0.25 m							
Minimum spatial resolution setting	0.5 m							
Measurement time	1 s to 30 s			2 s to 30 s	3 s to 30 s	4 s to 30 s		
Optical channels	1 (C1), 2 (C2) and 4 (C4)							
Available measurement modes	Single-ended; Double-ended (loop, incl. fiber break recovery, not available with channel option C1)							
HOUSING & ENVIRONMENTAL								
Housing		9" Rack Mount		Wall	Wall Mount			
Operating temperature range		14°F to 140°F (-10°C to +60°C)						
Storage temperature range		-40°F to 176°F (-40°C to +80 °C)						
Operating humidity range	O to	0 to 95 % r.h. non-condensing						
Dimensions (H x W x D)		3.46 x 15.54 x 15.54 in (88 x 420 x 420 mm)			18.62 x 15.54 x 4.14 in (473 x 420 x 105 mm)			
Weight		11 to 15.5 lbs (5 to 7 kg)		15.5	15.5 to 20 lbs (7 to 9 kg)			
Housing		19" Rack Mount		Wall	Wall Mount			



INTERFACES & POWER							
Optical connector / sensor fiber		E2000 APC 8° 50/125 μm graded index MM (OM2/OM3/OM4), ITU-T G.651.1					
User Interface		Web browser interface TFT-Display 480x272 pixel 4 front LEDs for power, measuring, fault and alarm 3 rear LEDs for power OK, SD card removable, laser ON					
Computer interface		2x Ethernet (LAN 10/100/1000), USB A, USB B					
Data storage capacity		512 MB internal, USB HDD/SSD, SD/SDHC card slot					
Communication protocol		SCPI, Option P01: Modbus TCP					
		Volt-free contacts, 30 V DC, 1 A Included: 4 inputs and 10 outputs Option SRO: 44 additional outputs Option SRR: 88 additional outputs Option TMx: Resistor configuration based on customer requirements					
Power		10 V to 30 V DC, 22	W typical at 20 °C ambient temperature, 40 W max				
SAFETY							
Laser safety class		Class 1M laser product IEC 60825 1: 2014; EN 60825 1: 2014; FDA 21CFR1040.10+Laser Notice no.50					
CERTIFICATIONS							
Fire Certifications		VdS EN54-22 / UL 521					
Safety Integrity Level (SIL) 2			IEC 61508				
ATEX	X Option EXO: Steel armored sensor cable)		⟨£x⟩	I (M1) [Ex op is pr II (1) G [Ex op is pr IIC T6 Ga] II (1) D[Ex op is pr Da]			
Option EX1: Any sensor cable)			⟨£x⟩	I (M2) [Ex op is II (2) G [Ex op is IIC T6 Gb] II (2) D [Ex op is Db]			
IECEx	CEx Option EX0: (Steel armored sensor cable)			[Ex op is pr Ma] [Ex op is pr IIC T6 [Ex op is pr			
	Option EX1: (Any sensor cable)			[Ex op is Mb] [Ex op is IIC T6 [Ex op is			

- 1. Max. optical loss budget (one way) 1km = 3 dB, 2km = 4 dB, 4km = 6 dB, 6km = 8 dB, 8km = 10 dB, 10km = 12 dB certifications may require a lower max. permissible loss values of the sensor.
- 2. Wallmount NEMA 4X (IP66) Housing options:
 - WM-N4X (with window) with operating temp. range -4°F to 140 °F (-20°C to +60°C)



