



Series 200 PTIR Sensor

Photo Thermal Infra Red - 22051TLE-34-IV

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200 Series intelligent plug-in PTIR fire sensors combine three sensing elements into one unit: Infra Red sensing for measuring ambient light levels and flame signatures, optical smoke detection and heat detection. By measuring and processing the individual sensor outputs in conjunction with intelligent algorithms, the detector is both immune to nuisance sources which are incorrectly identified as a real fire by a single sensing element, and yet remains very sensitive to real fires.

Individual sensor alarm thresholds are programmable within the control panel software. The F100A and F120A control panels can utilise the 6 sensitivities available from a single sensor, and react accordingly. The smoke levels within the sensor are continuously monitored and reported to the panel. With the 200 Series addressable capability, each sensor's address is easily set with decade address switches, giving the precise location of each sensor in the event of a fire or for selective maintenance when chamber contamination reaches an unacceptable level.

Features:

- High nuisance alarm immunity
- Unique, true three sensor multi-criteria fire detector incorporating photo, thermal and IR sensing elements Advanced algorithms interpret and respond to the multiple inputs
- Viable performance replacement to the ION detector
- Six available sensitivities
- Fully integrated infrared sensing to support the fire alarm decision
- Automatic drift compensation of smoke sensor
- Rotary decade address switches, 00 to 99
- Dual red LEDs for 360° visibility
- Optional remote LED accessory
- Magnet test function bypasses inbuilt delays



22051TLE (PTIR)

Specifications:

🔌 Size:	66mm(h) x 102mm (w) in B501 base
🔌 Shipping weight:	124g
🔌 Material:	Bayblend FR110
🔌 Operating temperature range:	-20°C to 55°C
🔌 Sensitivity:	See Sensitivity Settings below
🔌 Relative humidity:	15% to 90% non-condensing
🔌 Voltage range:	15 to 32VDC
🔌 Standby current @ 24VDC:	300µA (nominal)
🔌 LED current @ 24VDC:	7mA

Sensitivity Settings:

Level 1	Low false alarm resistance, high photo sensitivity (3.28%/m) with no delay
Level 2	Medium false alarm resistance, medium photo sensitivity (6.56%/m) with no delay
Level 3	Standard false alarm resistance, low photo sensitivity (9.84%/m) with up to 45" delay
Level 4	High false alarm resistance, low photo sensitivity (9.84%/m) with between 45" and 1'30" delay
Level 5	Very high false alarm resistance, low photo sensitivity (9.84%/m) with greater than 1'30" delay
Level 6	Heat only mode. 60°C or Rate of Rise



B501 Base



B524IEFT-1 Base

Ordering Information:

Description

Analogue addressable PTIR sensor
Analogue sensor base
Analogue sensor base with integral short circuit isolator

Part Number

22051TLE-34-IV
B501
B524IEFT-1

PERTRONIC INDUSTRIES PTY LTD

Melbourne

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