

PW-330DT

Intelligent Thermal (Heat) Detector

General

The PW-330DT intelligent thermal detectors are designed for both performance and aesthetics. A new modern, sleek, contemporary design and advanced thermal technologies make the PW-330DT series ideal for both system operation and building design. The point ID address, set using rotary decimal switches, provide specific detector locations. The series includes a 135°F/ 57°C fixed-temperature, rate-of-rise detectors. These thermal detectors provide effective, intelligent property protection in a variety of applications. The PW-330DT intelligent thermal detectors are available for both PTW-3300 and PTW-3300S Fire Alarm Control Panels (FACPs) as designated.



Features

- Sleek and stylish contemporary design.
- Advanced thermal technology for fast response.
- Fixed temperature model (PW-330DT) factory preset to 135°F (57°C).
- Rate-of-rise model (JTW-BCD-PW-330DT), 15°F (8.3°C) per minute.
- Addressable by device.
- Compatible with FlashScan® and CLIP protocol systems.
- Rotary, decimal addressing (1-99 on CLIP systems, 1-159 on FlashScan systems).
- Two-wire SLC connection.
- Visible LEDs “blink” every time the unit is addressed.
- 360°-field viewing angle of the visual alarm indicators (two bicolor LEDs). LEDs blink green in Normal condition and turn on steady red in Alarm.
- Integral communications and built-in device-type identification.
- Remote test feature from the panel.
- Built-in functional test switch activated by external magnet.
- Walk test with address display (an address of 121 will blink the detector LED 12-(pause)-1).
- Low standby current.
- Built-in tamper-resistant feature.
- Designed for direct-surface or electrical-box mounting.
- Sealed against back pressure.
- Plugs into separate base for ease of installation and maintenance.
- SEMS screws for wiring of the separate base.
- Optional remote, single-gang LED accessory.
- Optional sounder, relay, and isolator bases.

Specifications

Size: 1.5 " (38mm) high; base determines diameter.

– **B901E:** 4.0" (10.2 cm) diameter.

– **B900BI:** 6.875" (174 mm) diameter.

– **B900BH-3:** 4.04" (10.3 cm) diameter.

– **P330BH:** 4.04" (10.3 cm) diameter.

Operating Temperature range: PW-330DT, JTW-BCD-PW-330DT series : -20°C to 38°C (-4°F to 100°F);

Detector spacing: UL approved for 50 ft. (15.24 m) .

Relative humidity: 10% – 93% non-condensing.

Thermal ratings: fixed-temperature set point 135°F (57°C), rate-of-rise detection 8.3°C (15°F) per minute.,

ELECTRICAL SPECIFICATIONS

Voltage range: 15 - 32 volts DC peak.

Standby current (max. avg.): 380µA @ 24 VDC (one communication every 5 seconds with LED enabled).

LED current (max.): 3 mA @ 24 VDC (“ON”).

Installation

The PW-330DT plug-in intelligent thermal detectors use a separate base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector.

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Mount base (all base types) on an electrical backbox which is at least 1.5" (3.81 cm) deep. For a chart of compatible junction boxes.

NOTE: 1) Because of the inherent supervision provided by the SLC loop, end-of-line resistors are not required. Wiring "T-taps" or branches are permitted for Style 4 (Class "B") wiring. 2) When using relay or sounder bases, consult the PISO-3E installation sheet for device limitations between isolator modules and isolator bases.

Agency Listings and Approvals

These listings and approvals apply to the detectors specified in this document. In some cases, certain detectors or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- **UL Listing:** S24852
- **CCCF.**

Agency Listings and Approvals

PW-330DT: Intelligent thermal detector. Must be mounted to one of the bases listed below.

JTW-BCD-PW-330DT: Intelligent Thermal Detector, Fixed Temperature and Rate of Rise Combination.

INTELLIGENT BASES

B901E: Intelligent Detectors Base.

B900BI: Isolator Base for 330DP Series Intelligent Detectors.

B900BH-3: Loop-powered Sounder Base for 330DP Series Intelligent Detectors.

P330BH: Multi-function Detector Base for 330DP series, provide short-circuit protection and audible alarm output.

B224RB-WH: White, relay base.

B224RB-IV: Ivory, relay base.

B224BI-WH: White, isolator detector base.

B224BI-IV: Ivory isolator detector base.

B200S-WH: White, Intelligent addressable sounder base capable of producing sound output in high or low volume with ANSI Temporal 3, ANSI Temporal 4, continuous tone, marching tone, and custom tone. Uses FlashScan® protocol.

B200S-IV: Ivory, Intelligent addressable sounder base capable of producing sound output in high or low volume with ANSI Temporal 3, ANSI Temporal 4, continuous tone, marching tone, and custom tone. Uses FlashScan® protocol.

B200S-LF-WH: White, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/-10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement.

B200S-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/-10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement.

B200SR-WH: White, Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone. Intended for retrofit applications.

B200SR-IV: Ivory, Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone. Intended for retrofit applications.

B200SR-LF-WH: White, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/-10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement. Intended for retrofit applications.

B200SR-LF-IV: Ivory, Low Frequency Intelligent, programmable sounder base. Produces a fundamental frequency of 520 Hz +/-10% with a square wave or its equivalent; designed to meet the NFPA 72 sleeping space requirement. Intended for retrofit applications.

ACCESSORIES

PW-LDE-1: Remote LED Indicator. For use with B501/P901E.

RA100Z: Remote LED annunciator. 3–32 VDC. Mounts to a U.S. single-gang electrical box. For use with B501.

SMB500: Surface mounting kit.

CP900: Address coder.