

TC808B SERIES

Addressable Heat Detectors

The Honeywell TC808B Series heat detectors are designed for both performance and aesthetics. A new modern, sleek, contemporary design and advanced thermal technologies make the TC808B Series ideal for both system operation and building design.



The heat detectors series includes a 135°F/57°C fixed-temperature, rate-of-rise, and a 180°F/88°C fixed high-temperature detectors and are direct replacements for the TC808B1066, TC808B1058, and TC808B1041 heat detectors. The point ID address, set using rotary decimal switches, provide specific detector locations. These thermal detectors provide effective, intelligent property protection in a variety of applications. Detectors are available for both FlashScan® and CLIP applications as designated.

- TC808B3011 offers 135°F fixed thermal detection.
- TC808B3102 offers 135°F fixed and rate-of-rise thermal detection.
- TC808B3203 provides fixed high-temperature detection at 190°F.

For legacy installations, service detectors are available in the classic ivory color that will operate in both FlashScan and CLIP protocol for backwards compatibility. Ivory models are designated by the -IV suffix that appears after the detector model.

FEATURES AND BENEFITS

- Designed to meet UL 268 7th Edition
- Sleek and stylish contemporary design
- Advanced thermal technology for fast response
- Fixed temperature model (TC808B3011) factory preset to 135°F (57°C)
- Rate-of-rise model (TC808B3102), 15°F (8.3°C) per minute
- High temperature model (TC808B3203) factory preset to 190°F (88°C)
- Addressable by device
- Compatible with FlashScan and CLIP protocol systems
- Rotary, decimal addressing (Refer to the Honeywell panel manuals for device capacity)
- Two-wire SLC connection
- LEDs blink every time the unit is polled
- 360°-field viewing angle of the visual alarm indicators (two bi-color 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
- Optional flanged surface mounting kit

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APPLICATIONS

Use thermal detectors for protection of property. For further information, refer to manual I56-6541, Applications Manual for System Smoke Detectors, which provides detailed information on detector spacing, placement, zoning, wiring, and special applications.

INSTALLATION

The TC808B Series plug-in intelligent thermal detectors use a separate base to simplify installation, service, and maintenance. Installation instructions are shipped with each detector.

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, see 85-3043.

Note: 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.

Note: When using relay or sounder bases, consult the TC811A1006 installation sheet I56-3630 for device limitations between isolator modules and isolator bases.

PRODUCT LINE INFORMATION

Note: "-IV" suffix indicates FlashScan and CLIP device, Ivory color.

TC808B3011-IV: Ivory, low-profile intelligent 135°F fixed thermal sensor, FlashScan and CLIP

TC808B3102-IV: Ivory, low-profile intelligent rate-of-rise thermal sensor, FlashScan and CLIP

TC808B3203-IV: Ivory, low-profile intelligent 190°F thermal sensor, FlashScan and CLIP

B300-6: White, standard flanged low-profile mounting base

B300-6-IV: Ivory, standard flanged low-profile mounting base

B501-WHITE: White, standard European flangeless mounting base

B501-IV: Ivory, standard European flangeless mounting base

B501-WHITE-BP: Bulk pack of B501-WHITE, contains 10

ACCESSORIES

TR300: White, replacement flange for B300-6 base.

TR300-IV: Ivory, replacement flange for B300-6-IV base.

RA100Z: Remote LED annunciator. 3 – 32 VDC. Mounts to a U.S. single-gang electrical box. For use with B501 and B300-6 bases only.

M02-04-00: Test magnet

M02-09-00: Test magnet with telescoping handle

CK300: White, detector color kit, pack of 10

CK300-IV: Ivory, detector color kit, pack of 10

CK300-BL: Black, detector color kit, pack of 10

TC808B SERIES TECHNICAL SPECIFICATIONS

PHYSICAL/ENVIRONMENTAL

Size: 2.0" (53mm) high; base determines diameter

- **B300-6:** 6.1" (15.6 cm) diameter
- **B501:** 4" (10.2 cm) diameter

For a complete list of detector bases, see 85-3043.

Operating temperature range:

- TC808B3011, TC808B3102 Series: -4°F to 100°F (-20°C to 38°C)
- TC808B3203 Series: -4°F to 150°F (-20°C to 66°C)

Detector spacing: UL approved for 50 ft. (15.24 m) center to center; FM approved for 25 x 25 ft. (7.62 x 7.62 m) spacing

Relative humidity: 10% – 93% non-condensing

Thermal ratings: Fixed-temperature set point 135°F (57°C), rate-of-rise detection 15°F (8.3°C) per minute, high temperature heat 190°F (88°C)

ELECTRICAL SPECIFICATIONS

Voltage range: 15 – 32 volts DC peak

Standby current (max. avg.): 200µA @ 24 VDC (one communication every 5 seconds with LED enabled)

Max current: 4.5 mA @ 24 VDC ("ON")

AGENCY LISTINGS AND APPROVALS

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

- **UL Listing:** S751
- **FM Approved**

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This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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