# H365(A) Series

## Addressable Thermal Detectors

**FIRE·LITE ALARMS**
by Honeywell

## General

The Fire-Lite H365(A), H365R(A), and H365HT(A) Series addressable plug-in thermal detectors are designed for both performance and aesthetics. A new modern, sleek, contemporary design and advanced thermal technologies make the H365(A) Series ideal for both system operation and building design.

Exclusively for use with Fire-Lite's addressable fire alarm control panels, the H365(A) Series point ID capability allows each detector's address to be set with rotary, decimal address switches, providing exact detector location for emergency personnel to quickly locate a fire during its early stages, potentially saving precious rescue time while also reducing property damage. Two LEDs on each sensor light to provide a local, visible sensor indication.

The H365(A) Series includes fixed temperature, rate-of-rise and high heat fixed temperature detectors that provide effective, intelligent property protection for a variety of applications.

## Features

### SLC LOOP:
- Two-wire SLC loop connection.
- Unit uses base for wiring.

### ADDRESSING:
- Addressable by device.
- Rotary, decimal addressing. *Please refer to the Fire-Lite panel manuals for device capacity.*

### ARCHITECTURE:
- Sleek, low-profile, stylish design.
- State-of-the-art thermistor technology for fast response.
- Integral communications and built-in device-type identification.
- Built-in tamper resistant feature.
- Built-in functional test switch activated by external magnet.

### OPERATION:
- Fixed temperature model (H365(A)) factory preset to 135°F (57°C).
- Rate-of-rise model (H365R(A)), 15°F (8.3°C) per minute.
- High-temperature model (H365HT(A)) factory preset to 190°F (88°C).
- 360°-field viewing angle of the visual alarm indicators (two bicolor LEDs). LEDs blink red in Normal condition and turn on steady red in Alarm.
- Visible LEDs "blink" every time the unit is addressed.

### MECHANICALS:
- Sealed against back pressure.
- SEMS screws for wiring of the separate base.
- Designed for direct-surface or electrical-box mounting.
- Plugs into separate base for ease of installation and maintenance.
- Separate base allows interchange of photoelectric, ionization and thermal sensors.

### OTHER SYSTEM FEATURES:
- Remote test feature from the panel.
- Walk test with address display.
- Low standby current.



H365

**Options:**
- Remote LED output connection to optional RA100Z remote LED annunciator.

## Installation

H365 Series plug-in intelligent thermal detectors use a detachable 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 *DF-60059*.

**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 only.*

## Applications

Use thermal detectors for protection of property.

## Construction

These detectors are constructed of fire-resistant plastic. The H365 Series plug-in intelligent thermal detectors are designed to commercial standards and offer an attractive appearance.

## Operation

Each H365 Series detector uses one of 159 (panel dependent) possible addresses on the Fire-Lite Signaling Line Circuit (SLC). It responds to regular polls from the control panel and reports its type and the status. If it receives a test command from the panel (or a local magnet test), it stimulates its electronics and reports an alarm. It blinks its LEDs when polled and turns the LEDs on when commanded by the panel. The H365 Series offers features and performance that represent the latest in thermal detector technology.

## Specifications

**Size:** 2.0" (5.3 cm) 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 DF-60983*

**Shipping weight:** 3.4 oz. (95 g).

**Operating temperature range:** H365, H365R Series: –20°C to 38°C (–4°F to 100°F); H365H: –20°C to 66°C (–4°F to 150°F).

**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% noncondensing.

**Mounting:** B300-6(A) flanged base, included.

See **"Product Line Information: Intelligent Bases,"** if using a different base.

**Fixed-temperature setpoint:** 135°F (57°C) for the H365 and H365R; 190°F (88°C) for the H365HT.

**Rate-of-rise detection:** responds to greater than 15°F (8.3°C) per minute.

### *ELECTRICAL SPECIFICATIONS*

**Voltage range:** 15 - 32 volts DC peak.

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

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

## Listings and Approvals

Listings and approvals below apply to the H365(A) Series detectors. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL/ULC Listing: S2101
- FM Approved
- CSFM: 7272-0075-0501

## Product Line Information

***NOTE:*** *"-IV" suffix indicates CLIP and LiteSpeed device.*

***NOTE:*** *"A" suffix indicates Canadian version.*

**H365(A):** White, low-profile intelligent 135°F fixed thermal sensor, B300-6 base included. LiteSpeed only.

**H365(A)-IV:** Ivory, low-profile intelligent 135°F fixed thermal sensor, B300-6 base included.

**H365R(A):** White, low-profile intelligent rate-of-rise thermal sensor, B300-6 base included. LiteSpeed only.

**H365R(A)-IV:** Ivory, low-profile intelligent rate-of-rise fixed thermal sensor, B300-6 base included.

**H365HT(A):** White, low-profile intelligent 190°F fixed thermal sensor, B300-6 base included. LiteSpeed only.

**H365HT(A)-IV:** Ivory, low-profile intelligent 190°F thermal sensor, B300-6 base included.

### *INTELLIGENT BASES*

***NOTE:*** *For details on intelligent bases, see DF-60059.*

**B300-6:** White, 6" base, standard flanged low-profile mounting base. *(CSFM: 7300-1653:0109 Pending)*

**B300-6-IV:** Ivory,6" base, standard flanged low-profile mounting base. *(CSFM: 7300-1653:0109 Pending)*

**B300A-6:** Same as B300-6, ULC listed.

**B300A-6-IV:** Ivory, 6" standard flanged low-profile mounting base, ULC listed.

**B300-6-BP:** Bulk pack of B300-6, package contains 10

**B501-WHITE:** White, 4" standard European flangeless mounting base. UL/ULC listed. *(CSFM: 7300-1653:0109 Pending)*

**B501-BL:** Black, 4" standard European flangeless mounting base. UL/ULC listed. *(CSFM: 7300-1653:0109 Pending)*

**B501-IV:** Ivory color, 4" standard European flangeless mounting base. UL/ULC listed. *(CSFM: 7300-1653:0109 Pending)*

**B501-WHITE-BP:** Bulk pack of B501-WHITE contains 10.

**B224RB-WH:** White, relay base. *(CSFM: 7300-1653:0216 Pending)*

**B224RB-IV:** Ivory, relay base. *(CSFM: 7300-1653:0216 Pending)*

**B224RBA-WH:** White, relay base, ULC listing.

**B224RBA-IV:** Ivory, relay base, ULC listing.

**B224BI-WH:** White, *isolator* detector base. *(CSFM: 7300-1653:0216 Pending)*

**B224BI-IV:** Ivory *isolator* detector base. *(CSFM: 7300-1653:0216 Pending)*

**B224BIA-WH:** White, *isolator* detector base, ULC listing.

**B224BIA-IV:** Ivory *isolator* detector base, ULC listing.

**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. *(CSFM: 7300-1653:0213 Pending)*

**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. *(CSFM: 7300-1653:0213 Pending)*

**B200SA-WH:** Same as B200S-WH, ULC listing.

**B200SA-IV:** Same as B200S-IV, ULC listing.

**B200SCOA-WH:** White, Intelligent, programmable sounder base in English/French (required in Canada for ULC applications with CO Series detector applications.

**B200SCOA-IV:** Ivory Intelligent, programmable sounder base in English/French (required in Canada for ULC applications with CO Series detector applications, ULC listing.

**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. *(CSFM: 7300-1653:0238 Pending)*

**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. *(CSFM: 7300-1653:0238 Pending)*

**B200SR-WH:** White, Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone. Intended for retrofit applications. *(CSFM: 7300-1653:0213 Pending)*

**B200SR-IV:** Ivory, Intelligent sounder base capable of producing sound output with ANSI Temporal 3 or continuous tone. Intended for retrofit applications. *(CSFM: 7300-1653:0213 Pending)*

**B200SRA-WH:** Same as B200SR-WH with, ULC listing.

**B200SRA-IV:** Same as B200SR-IV in Ivory color, ULC listing.

**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. *(CSFM: 7300-1653:0238 Pending)*

**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. (*CSFM: 7300-1653:0238 Pending*)

### *MOUNTING KITS AND ACCESSORIES*

**TR300**: White, replacement flange for B210LP(A) base.

**TR300-IV:** Ivory, replacement flange for B210LP(A) base.

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

**M02-04-00:** Test magnet.

**M02-09-00:** Test magnet with telescoping handle.

**CK300:** Color Kit (includes cover and trim ring), white, 10-pack.

**CK300-IV:** Color Kit (includes cover and trim ring), ivory, 10-pack.

**CK300-BL:** Color Kit (includes cover and trim ring), black, 10-pack.

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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.

For more information, contact Fire•Lite Alarms. Phone: (800) 627-3473, FAX: (877) 699-4105.
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