# Fire Detectors

## Analogue Heat Detector

## Model 3308

- Different modes for compatibility with other **Firetracker** systems
- Algorithms for class A1,A2 S or B

## General

The analogue heat detector 3308 measures the temperature through a thermistor. The temperature range is 0°C to 100°C in steps of 0.5°C.

## Programming / Compatibility

The address setting tool 3314 is used to set the detector's COM loop address. The detector has an Address label (Ae) where the programmed address is to be written.
3314 is also used to set the detector mode.

- **NORMAL** mode (analogue): Detector 3308 + analogue base 3312 is used in the **Firetracker** 512 system (SW version ≥2.x) and **Firetracker** 128 system (SW version ≥ 1.0.3.)

The detector works as a temperature sensor where the analogue readings (0°C to 100°C) are converted to digital "sensor values" that are read and evaluated by the c.i.e. Algorithms for class A1, A2 S or B S (set in Win512/128).

- **2330** mode (conventional): Detector 3308 + analogue base 3312 is used in the **Firetracker** 512 & 128 systems as an equivalent to the 60°C conventional fixed temperature heat detectors 6270 / 6275 + addressable base 2330, i.e. as a response grade 2 heat detector.
- (static response temperature 57°C).
  NOTE! The analogue base 3312 has no ext. line input, like the addressable base 2330 has.
- **2312** mode: Not used for 3308.

## Algorithms

**Firetracker** 512 & 128 uses algorithms for class A1, A2 S and B S, according to EN54-5:2000, for fire alarm detection. Via Win512 / Win128 is an algorithm selected for each 3308 in NORMAL mode.

## Miscellaneous

The detector has an LED that will light up when the detector goes into alarm.
The detector is plugged in the analog base 3312. The COM loop is connected to the base, which also has terminals to connect an external LED.

## Product Applications

The detector 3308 is used in the **Firetracker** 512 & 128 systems.

It is intended for indoor use and in dry premises.
Heat detectors are normally used in small rooms where the temperature can be expected to rise rapidly in case of a fire or places where smoke detectors cannot be used.

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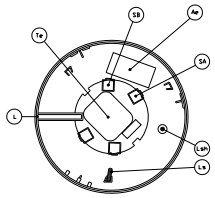
| Type number | |
|---|---|
| 3308 | Analogue heat detector |



| | |
|---|---|
| SA | Contact pin for address setting tool 3314 |
| SB | Contact pin for address setting tool 3314 |
| Te | Label; Detector type |
| Ae | Label; Address |
| Lsh | Locking screw hole (prepared for drilling through detector body) |
| Ls | Locking screw |
| L | LED |

Prepared for mechanical locking, when plugged in the analogue base 3312. One hexagon socket locking screw is attached (1.5 mm Hex key to be used). One 2.5-2.7 mm hole has to be drilled.

| Technical data | |
|---|---|
| Voltage (V DC)<br>rated<br>allowed<br>normal | <br>28<br>12-30<br>24 |
| Current consumption at nom. volt. (mA)<br>quiescent<br>active (incl. internal LED)<br>ext. LED (connected via base 3312) | <br>0.3<br>2.3<br>2 |
| Ambient temperature (°C)<br>operating<br>(Min. / Typical / Max.)<br>(Min. / Typical / Max.)<br>storage | Depending on the mode.<br>NORMAL mode: Class is depending on the algorithm.<br>Class **A1**: -20 / +25 / +50, **A2 S**: -20 / +25 / +50 or **B S**: -20 / +40 / +65<br>2330 mode: -10 / +25 / +50<br>-25 to +70 |
| Ambient humidity (% RH) | max. 95, non condensing |
| Ingress Protection rating (estimated) | IP51 |
| Sensitivity (°C)<br>Static response temperature (range) | NORMAL mode: Depending on the algorithm.<br>Class **A1**: 54-65, **A2 S**: 54-70 & **B S**: 69-85.<br>2330 mode: **Response grade 2**: 57 |
| Size ∅ x h (mm) | 102 x 36 |
| Weight (g) | 51 |
| Colour | grey (N8, Muncell colour code) |
| Approvals | **AS7240.5** CE 05 EC Certificate no. 0845-CPD-232.1189<br>NORMAL mode: EN54-5:2000: Class P (depending on algorithm).<br>2330 mode: EN54-5: Response grade 2 (yellow). |

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