



Fire alarm systems Analog heat detector 3308

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

General

The analog 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 (analog): Detector 3308 + analog base 3312 used in the systems EBL512 (SW version $\geq 2.x$) and EBL128.

The detector works as a temperature sensor where the analog 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).

- **2330** mode (conventional): Detector 3308 + analog base 3312 is used in the systems EBL512 / 1000 / 2000 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 analog base 3312 has no ext. line input, like the addressable base 2330 has.

- **2312** mode: Not used for 3308.

Algorithms

EBL512 / EBL128 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 2216 / 2217.

Product applications

The detector 3308 is used in the systems EBL512 / EBL128 / 1000 / 2000.

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 can not be used.

Type number

3308 Analog heat detector



- SA** Contact pin for COM loop / address setting tool 3314
- SB** Contact pin for COM loop / address setting tool 3314
- TI** Type number label; Detector type
- AI** Address label
- Ls** Locking screw
- Lsh** Locking screw hole (prepared for drilling through detector body)
- E+** Contact pin for External LED
- E-** Contact pin for External LED
- LED** Built-in LED

Prepared for mechanical locking with analog base 3312. One hexagon socket screw (Ls) is attached (1.5 mm Hex key to be used). The 2.5-2.7 mm hole (Lsh) has to be drilled.

Technical data

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

All technical features and data are subject to changes without notice, resulting from continuous development and improvement.

Product Leaflet	Date of issue	Revision / Date of revision
MEW00053	2000-08-24	5 / 2006-08-31