Fire alarm systems
Analog heat detector 3308

- Different modes for compatibility with other/older 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 (Al) 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 EBL128, EBL512 (SW version ≥2.x) and EBL512 G3.
  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 (is set via Win128 / Win512 / WinG3).
- **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

EBL128 / 512 / 512 G3 uses algorithms for class A1, A2 S and B S, according to EN54-5:2000, for fire alarm detection. Via Win128 / Win512 / WinG3 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 3312x / 4313. The COM loop is connected to the base, which also has terminals to connect an external LED, e.g. 2218.

Product applications

The detector 3308 is used in the systems EBL128 / 512 / 512 G3 / 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.

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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 3312x / 4313. 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	28
allowed	12-30
normal	24
Current consumption at nom. volt. (mA)	
quiescent	0.3
active (incl. internal LED)	2.3
ext. LED (connected via base 3312)	2
Ambient temperature (°C)	Depending on the mode.
operating	NORMAL mode: Class is depending on the algorithm.
(Min. / Typical / Max.)	Class **A1**: -20 / +25 / +50, **A2 S**: -20 / +25 / +50 or **B S**: -20 / +40 / +65
(Min. / Typical / Max.)	2330 mode: -10 / +25 / +50
storage	-25 to +70
Ambient humidity (% RH)	max. 95, non condensing
Ingress Protection rating (estimated)	IP51
Sensitivity (°C)	NORMAL mode: Depending on the algorithm.
Static response temperature (range)	Class **A1**: 54-65, **A2 S**: 54-70 & **B S**: 69-85.
	2330 mode: **Response grade 2**: 57
Size ∅ x h (mm)	102 x 36
Weight (g)	51
Colour	grey (N8, Munsell colour code)
Approvals	CE 09 EC Certificate no. 0845-CPD-232.1189
	NORMAL mode: EN54-5:2000: Class P (depending on algorithm).
	2330 mode: 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	7 / 2011-03-09