Fire Detectors

Enclosed Analogue Heat Detector

Model 3309

- Different modes for compatibility with other **Firetracker** systems / detectors
- Algorithms for class A1,A2 S or B S
- ⟨Ex⟩ ATEX compliance
- Waterproof (IP67)

General

The analogue heat detector 3309 measures the temperature through a thermistor. The temperature range is 0°C to 100°C in steps of 0.5°C. The detector has an LED that will light up when the detector goes into alarm. The detector also has an output for an external LED.

Programming / Compatibility

The address setting tool 4414 is used to set the detector's COM loop address. The detector has an address label inside, where the address is to be written.
4414 is also used to set the detector mode.

- **NORMAL** mode (analogue): Used in the **Firetracker** 1020G3 or **Firetracker** 128V2 system. 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 ELBWin).

Algorithms

Firetracker 1020G3 & 128V2 use algorithms for class A1, A2 S and B S, according to AS 7240.5, for fire alarm detection. Via ELBWin an algorithm is selected for each 3309 in NORMAL mode.

⟨Ex⟩ ATEX Classification

3309 complies with the ATEX classification **Ex II 3GD EEx nA II T5**.

Waterproof

The thermistor, the LED, all electronics, etc. are mounted in a waterproof detector housing, mounted on a connection box.

Label holder

A label holder, intended for a label showing "zone-address" or "technical number", can be mounted in the connection box.

Miscellaneous

The COM loop is connected to the detector, which is provided with three pairs of flying leads with female push-on connectors.

Product Applications

Used in the **Firetracker** 1020G3 & 128V2 systems.
Heat detectors are normally used where smoke detectors cannot be used or in rooms where the temperature can be expected to rise rapidly in case of a fire.

The detector is intended for outdoor use (must not be exposed to heavy sunlight) or in high humidity indoor premises.

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Fire System Technology

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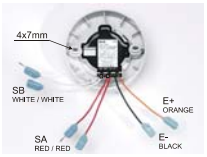
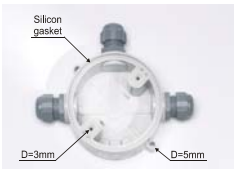
Type numbers	
3309	Enclosed analogue heat detector (incl. connection box, 3 compression glands and gasket)
3390	Label holder (100 holders per packet, excl. labels)
3391	Labels for 3390 (10 sheets à 132 labels)





Detector mounting holes, 2x(4x7 mm) c/c = 70 mm. **SA/SB** (Red/White) = COM loop in and out respectively. One SA and one SB connector is provided with a "wire" to be used to connect the Address setting tool 3314 during mode and address setting. The "wires" are to be pulled out before the COM loop wires are connected. **E+/E-** = Ext. LED. Connectors for wire diameter 0.6 – 1.2 mm (0.3 – 1.13 mm^2 approx.). Cable length max. 30 m.
Connection box mounting holes 2x(5 mm) c/c = 108 mm. The connection box is prepared for required number of compression glands, two (in / out) or three (in / out / ext. LED). A gland is approx. 30 mm high.

Technical data	
Voltage (V DC)	
rated	28
allowed	12-30
normal (on the COM loop)	24
Current consumption at norm. volt. (mA)	
quiescent	0.185
active (incl. internal LED)	1.650
ext. LED	2
Ambient temperature (°C)	
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.)	
storage	
Ingress Protection rating	IP67 (attached connection box, silicon gasket and compression glands are required)
Sensitivity (°C) Static response temperature (range)	NORMAL mode: Depending on the algorithm. Class **A1**: 54-65, **A2 S**: 54-70 & **B S**: 69-85
Size ∅ x H (mm)	100 x 78
Weight (g) detector + connection box (incl. 3 glands)	116 + 160 = 276
Construction / Colour	Modified Polycarbonate / Grey (N8, Muncell colour code)
Approvals	AS7240.5 CE 05 EC Certificate no. 0845-CPD-232.1190
ATEX classification	Ⓔx II 3GD EEx nA II T5 (T70°C), -20°C ≤ T_a ≤ 65°C

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