

4408

ANALOG HEAT DETECTOR

Fire alarm solutions
technical description

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1. INTRODUCTION

This document describes the analog heat detector, type number 4408.

The document contains information about the product and instructions on how to mount and connect it.

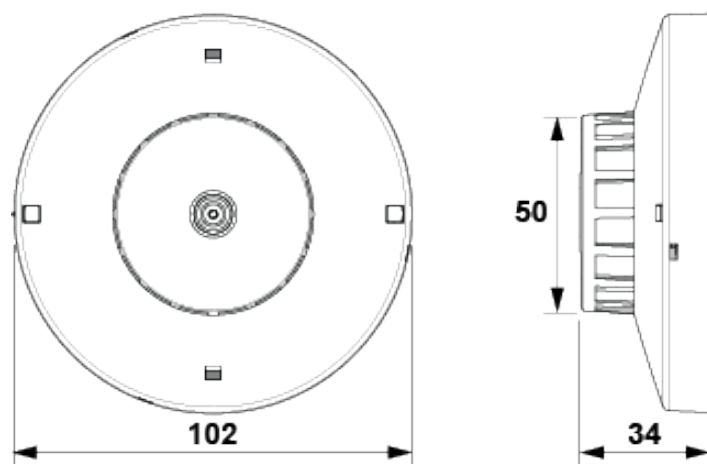
2. ABBREVIATIONS

CIE	Control and indicating equipment	= control unit
LED	Light Emitting Diode	

3. GENERAL DESCRIPTION

The analog heat detector 4408 measures the temperature through a thermistor. The temperature range is 0°C to 100°C in steps of 0.5°C.

The analog heat detector is intended for indoor use and in dry premises.



(Measure in mm)

3.1. DETECTOR

The detector is plugged in the analog base 3312x / 4313 / 3379.

3.2. LED

The detector has two red LEDs that are activated (flashing) when the detector is in fire alarm state. The detector also has a green polling LED.

Via EBLWin, the green polling LED can in Normal mode be set to be blinking (20 ms / 7 s) when the detector is polled or never to blink.

When the detector is in test mode the green polling LED will be turned off, indicating it is in test mode.

3.2.1. ADDRESS SETTING CHECK

The red LEDs will in all modes be blinking every second when the detector is powered and the COM Loop address is not set with the address setting tool, that is as long as the address is "000".

4. SET THE COM LOOP ADDRESS

Each COM loop unit has to have a unique COM loop address (001-253).
Set the address with the Address Setting Tool (4414 or 4414E).

The COM loop address and mode settings have to be done before the unit is connected to the COM loop.

5. SET THE MODE

Set the mode with the Address setting tool (4414 or 4414E) according to the table below.

5.1. COMPATIBILITY TABLE

	Advanced mode	NORMAL mode	2330 mode Spare part for detector base 2330 + heat detector 6275	2312 mode
EBL512 G3	Not used	All versions	All versions	Not used
EBLOne	Not used	$V \geq 3.3$	Not used	Not used
EBL128	Not used	All versions	All versions	Not used
Configured as:	-	-	2230 and 6275	-

5.2. ALGORITHMS

Algorithms for category A1, A2 S, and B S are used for detectors in NORMAL mode. The algorithm is programmed via EBLWin.

Select one of three algorithms (static response temperature range) for category:

Heat Alarm Algorithms				
Static response temperature:	A1 54-65°C		A2 S 54-70°C	B S 69-85°C
	Rate of rise $\leq 4^\circ\text{C}$ per minute	Rate of rise $> 4^\circ\text{C}$ per minute	-	-
Fire Alarm	56°C	46°C	60°C	74°C

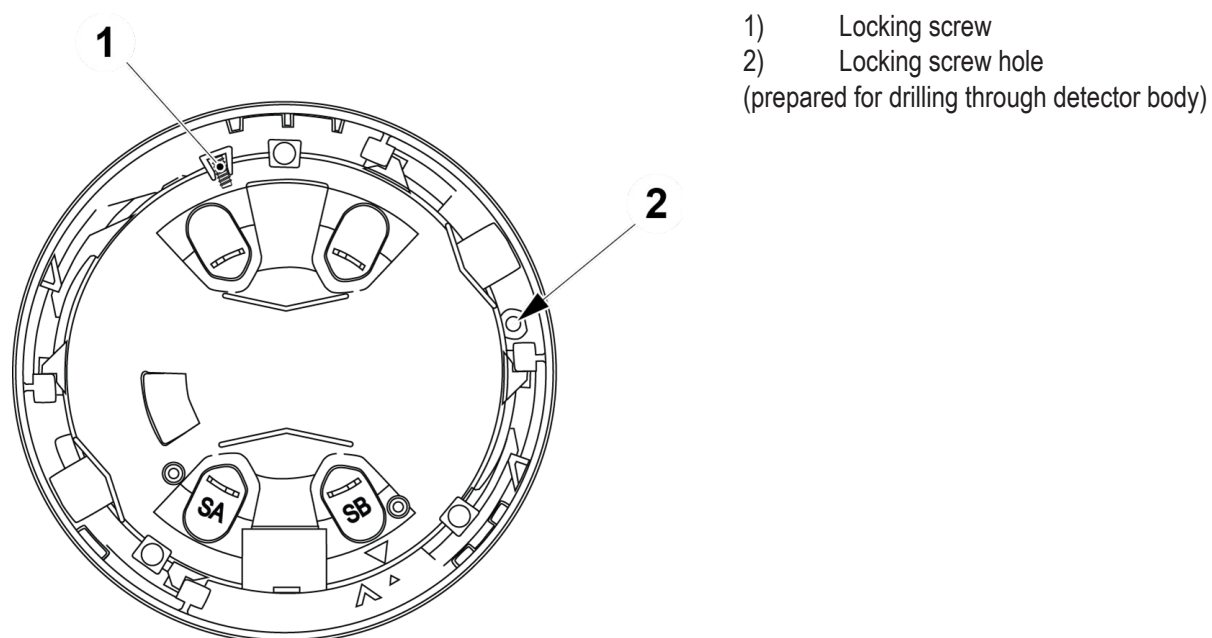
5.3. TEST MODE

For information about how to set the detector in test mode, see Planning Instructions or Operating Instructions.
It is possible to use test equipment for testing, for example "SOLO" or "Testifire".

6. MOUNTING

The detector is plugged in the analog base.

Place the detector in the base with the detector's "Mark" in the same position as the "Mark" on the base and turn the detector clockwise.

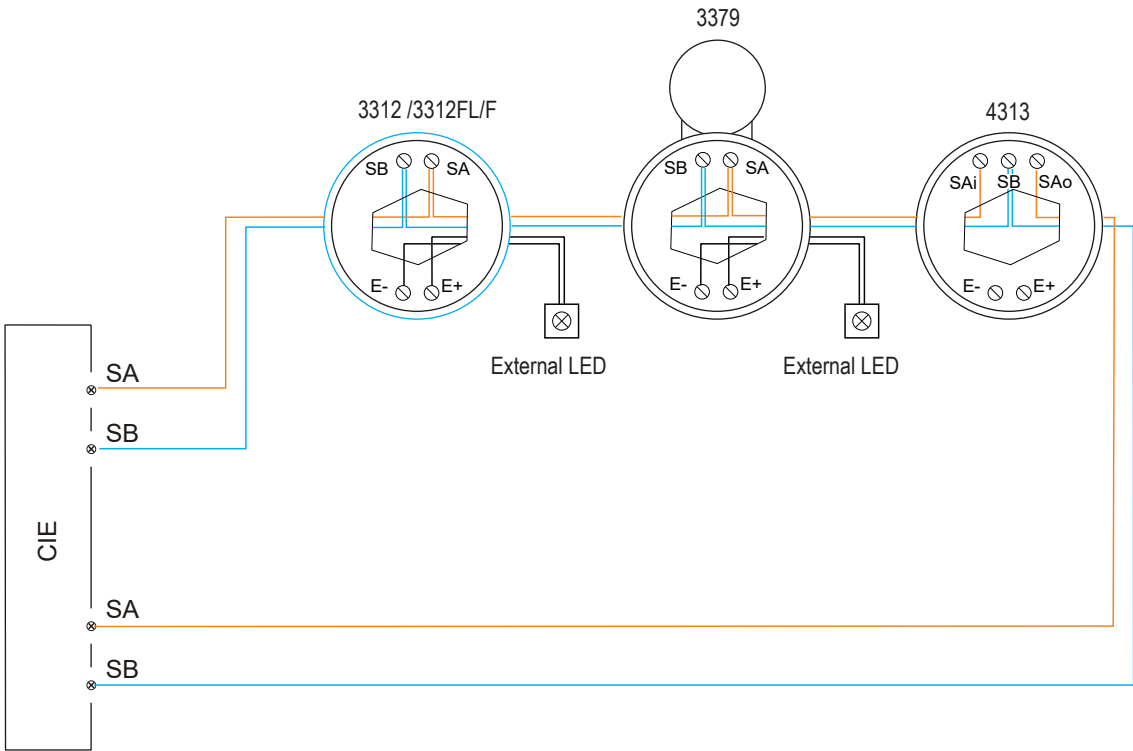


The detector is prepared with one hexagon socket screw for mechanical locking with the analog base. A 2.5-2.7 mm hole has to be drilled.

7. INSTALLATION AND WIRING

The detector is plugged in an analog base 3312x / 4313 / 3379. The COM Loop and external LED are connected to the analog base.

Screen wire termination is not provided.



	3312F / 3312FL	3312 / 4313 / 3379
Wire size (Min)	Ø 0,6 mm (0,3 mm²)	Ø 0,6 mm (0,3 mm²)
Wire size (Max)	Ø 1,2 mm (1,13 mm²)	Ø 1,6 mm (2 mm²)

8. TECHNICAL DATA

All current consumptions are valid by nominal voltage and by 25 °C.

Voltage: Allowed Normal	12 – 30.0 V DC 24V DC
Current: Quiescent Active (incl. internal LED) Active (incl. external LED)	0.3 mA 2.3 mA 4.3 mA
Address range	001-253
Address setting	With address setting tool
Short circuit isolator	No
Internal battery	No
Material	FR ABS and polycarbonate
Ambient temperature: Operating NORMAL mode: Depending on the category	(Min. / Typical / Max.) A1: -20 / +25 / +50 °C A2 S: -20 / +25 / +50 °C B S: -20 / +40 / +65 °C
2330 mode:	-10 / +25 / +50 °C
Storage temperature:	-25 to +70 °C
Ambient humidity	Maximum 95 % RH (Non condensing)
Ingress protection rating	IP 51
Sensitivity (°C) Response temperature: NORMAL mode: Depending on the category 2330 mode:	A1: rate-of-rise $\leq 4^{\circ}\text{C}/\text{min}$: 56 °C A1: rate-of-rise $> 4^{\circ}\text{C}/\text{min}$: 46 °C A2 S: 60 °C B S: 74 °C A2 S: 60 °C
Size: Ø x H	102 x 34 mm
Weight:	65g
Available colours:	4408W White (10Y9/0.5, Munsell colour code)

9. APPROVALS

Applicable directive/ Approval	Applicable standards	Notified body
CPR	EN54-5	VdS No. 0786-CPR-21763
VdS	EN54-5 VdS 2344 VdS 2543	VdS No. G222044
EMC	EN61000-6-3 (Emission) EN50130-4 (Immunity)	Self declaration VdS (Certification)
RoHS	EN IEC 63000	Self declaration



DOCUMENT NAME: TECHNICAL DESCRIPTION 4408
DOCUMENT NUMBER: MEW02742 EN
DATE OF ISSUE: 2022-07-15
REV: 1
DATE OF REVISION: 2024-08-21

Panasonic Fire & Security Europe AB

Jungmansgatan 12
SE-211 11 Malmö
Sweden
Tel: +46 (0)40 697 70 00