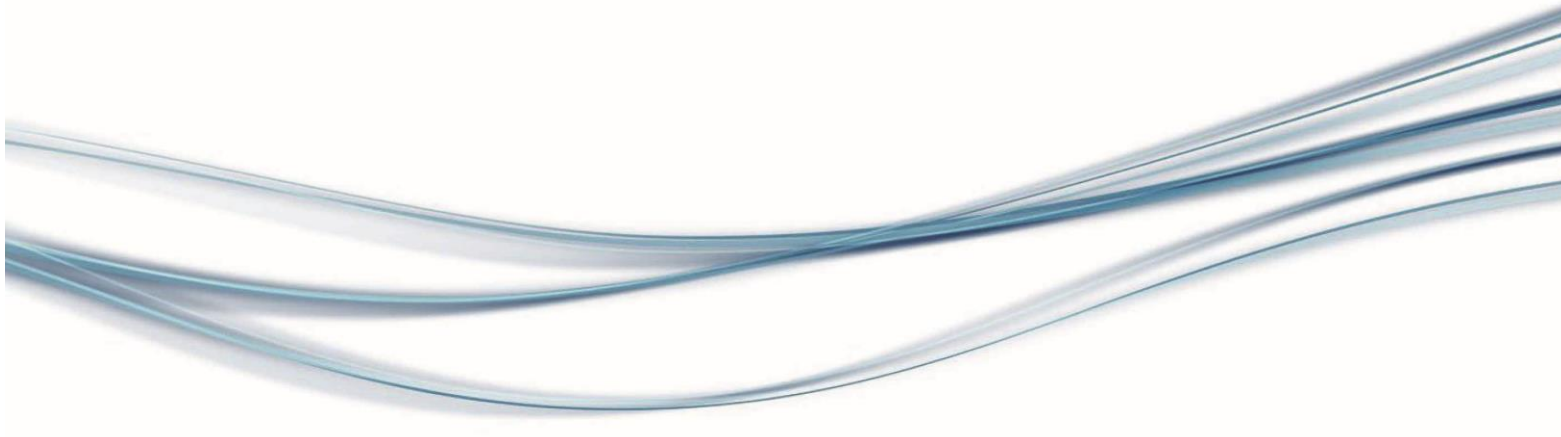


PANASONIC FIRE ALARM SOLUTIONS
TECHNICAL DESCRIPTION
4318



COMBINATION HEAT DETECTOR



DOCUMENT INFORMATION

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TABLE OF CONTENTS

1	INTRODUCTION.....	3
2	ABBREVIATIONS	3
3	GENERAL DESCRIPTION.....	4
3.1	DETECTOR	4
3.1.1	LATCHING	4
3.1.2	EXTERNAL LED	4
3.2	ZONE LINE INPUT	5
4	MOUNTING.....	5
5	INSTALLATION AND WIRING	6
6	TEST MODE	6
7	TECHNICAL DATA	7
8	APPROVALS	8

1. INTRODUCTION

1 INTRODUCTION

This document describes the combination heat detector, type number 4318.

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

2 ABBREVIATIONS

c.i.e	Control and indicating equipment	
LED	Light Emitting Diode	

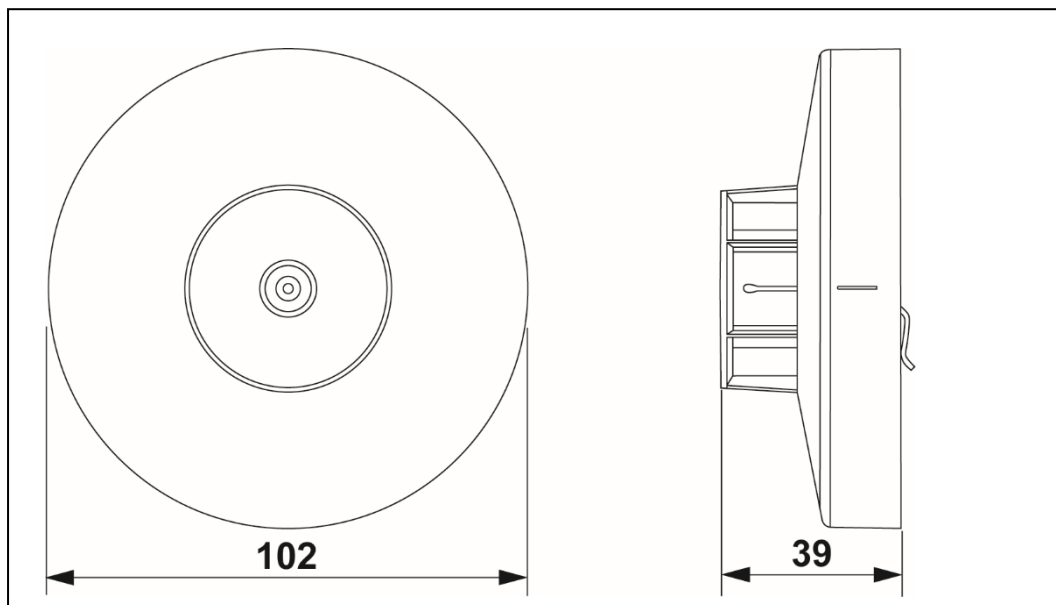
3. GENERAL DESCRIPTION

3 GENERAL DESCRIPTION

The combination heat detector is a conventional fixed temperature detector, category A1R. The detector will give an alarm at a certain fixed temperature (59 °C) and/or at a certain temperature rise, "rate-of-rise" function.

Used in system EBL512 G3, EBL128, and EBL512.

The unit is intended for indoor use and in dry premises.



(Measures in mm)

3.1 DETECTOR

The sensing element is a thermistor. The detector and will give an alarm within a response temperature range.

Static response temperature	Category	Temperature range
59 °C	A1 R	54-65 °C

The rate-of-rise function (ΔT) will detect a fast temperature rise > 6 °C per minute.

3.1.1 LATCHING

The detector is latching. The detector will not be automatically reset if the temperature, after the alarm, falls below the detector's static response temperature. The detector's LED and a connected external LED will be lit until the detector is reset via the c.i.e.

3.1.2 EXTERNAL LED

One External Indicator (LED) can be connected to the screw terminals **E+** and **E-**:

4. MOUNTING

- **E+** Ext. LED, for example External indicator 2218; J2:2 (+)
- **E-** Ext. LED, for example External indicator 2218; J2:3 (-)

3.2 ZONE LINE INPUT

The conventional detector is connected to a zone line input (for conventional detectors) in the c.i.e. The last unit on the zone line has an End-of-line device to be connected. The type of end-of-line device is depending on the c.i.e. and the type of zone line input.

4 MOUNTING

The detector is plugged in a base.

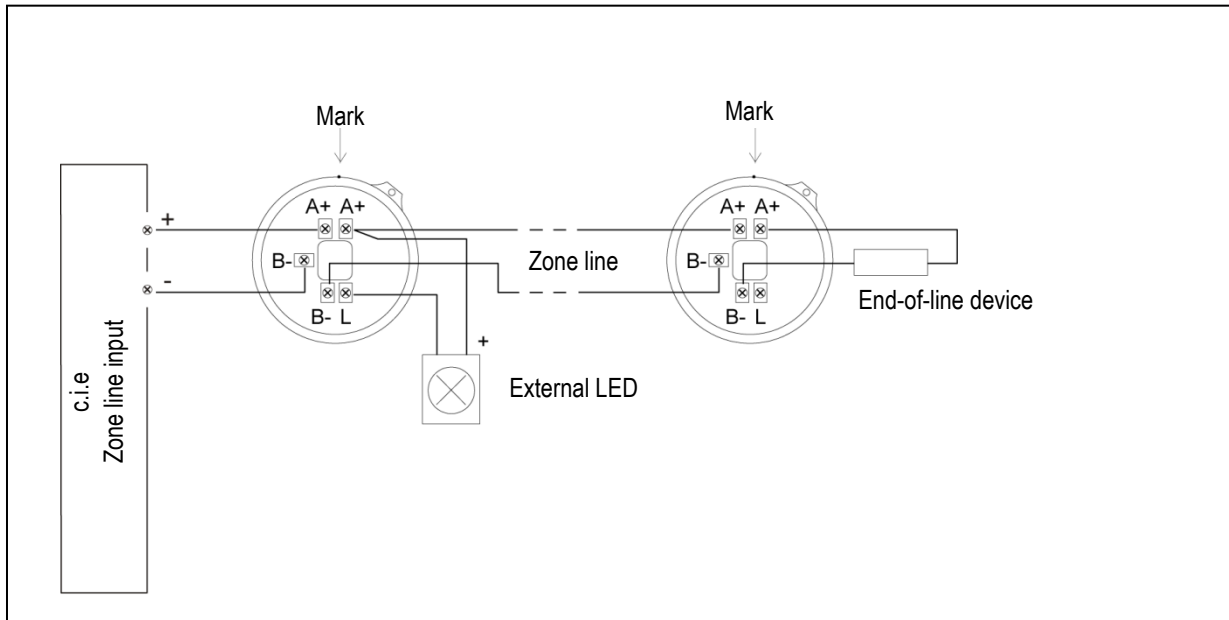
Place the detector in the base with the detector's "Mark" in the same position as the "Mark" on the base and turn the detector clockwise.

5. INSTALLATION AND WIRING

5 INSTALLATION AND WIRING

The detector is plugged in a base 2324. The zone line input and external LED are connected to the base.

NOTE! Screen wire termination is not provided.



DATA	2324
Wire size (Min)	Ø 0,65 mm (0,3 mm ²)
Wire size (Max)	Ø 1,6 mm (2 mm ²)

6 TEST MODE

For information about how to set a zone in test mode, see Planning Instructions or Operating Instructions.

It is possible to use test equipment for testing, for example "SOLO" or "Testfire".

7. TECHNICAL DATA

7 TECHNICAL DATA

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

Voltage:		
Allowed		10-30V DC
Normal		24V DC
Current:		
Quiescent		0.015 mA
Active (current limitation)		Must be minimum 3
Rate-of-rise response		6 °C / min
Short circuit isolator		No
Internal battery		No
Material		Modified polycarbonate
Ambient temperature:		
Operating		-10 to +50 °C
Storage		-25 to +70 °C
Static response temperature		59 °C
Ambient humidity		Maximum 95, % RH (Non condensing)
Ingress protection rating		IP 51
Size:		
Ø x H		102 x 39 mm
Weight		54 g
Available colours	4318	Grey (N8, Munsell colour code)
	4318W	White (10Y9/0.5, Munsell colour code)

8. APPROVALS

8 APPROVALS

Applicable directive / Approval	Applicable standards	Notified body
CPR	EN54-5	VdS No. 0786-CPR-21198
VdS	EN54-5 VdS2344 VdS2503	VdS No. G208048
EMC	EN61000-6-3 (Emission) EN50130-4 (Immunity)	Self declaration
RoHS	EN50581	Self declaration

