Panasonic



4418

EXTERNAL INDICATOR (LED)

Fire alarm solutions
technical description

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1. INTRODUCTION

This document describes the external indicator, type number 4418.
The document contains information about the product and instructions on how to mount and connect it.

2. ABBREVIATIONS

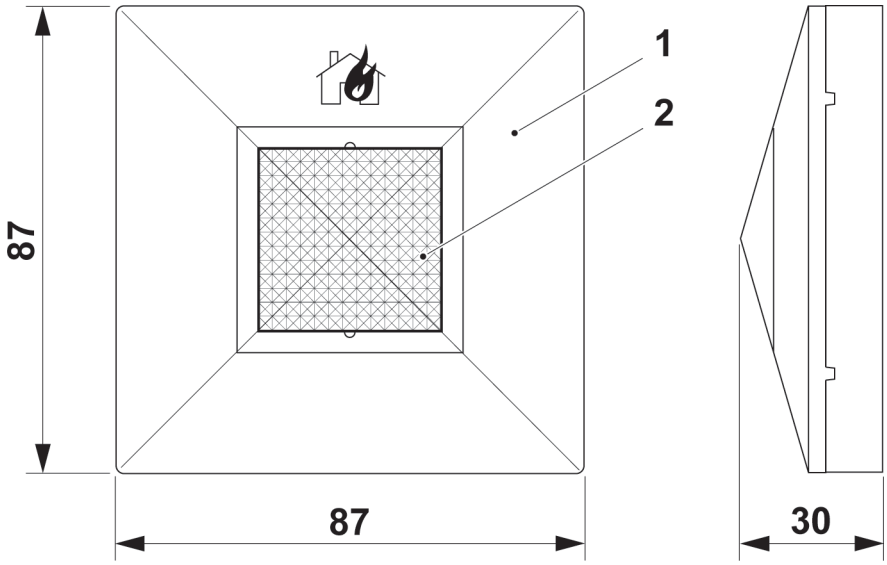
CIE	Control and indicating equipment	= control unit
LED	Light Emitting Diode	

3. GENERAL DESCRIPTION

The external indicator (LED) is connected to the COM loop. The indicator can be used when a detector is placed out of view or hidden.

The external indicator (LED) has two modes of operation, either NORMAL or Advanced.

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



(Measure in mm)

1. Indicator
2. LED

3.1. INDICATOR

Wall mounted.

3.1.1. LED

When used in NORMAL mode: The LED is lit at the same time as the LED in the detector/base, that has the same address as the indicator. The LED is always flashing, when activated.

When used in Advanced mode: The LED is programmable by a control expression via EBLWin.

4. SET THE COM LOOP ADDRESS

4.1. AUTO ADDRESSING

The 4418 supports automatic addressing via EBLWin. See section 5.2. ADVANCED MODE (DEFAULT) on page 6.

4.2. MANUALL ADDRESSING

If auto addressing is not used, there is a possibility to manually set the address.
Each COM loop unit has to have a unique COM loop address (001-253). The address is set with the Address Setting Tool (4414).

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) according to the table below.

5.1. NORMAL MODE

The 4418 is addressed to the same address as the detector it shall indicate. It listens to the LED on and LED off commands between the CU and the detector and follows them. In this mode the 4418 listens only, so it is not supervised by the control unit.

5.2. ADVANCED MODE (DEFAULT)

One programmable 'output' for the LED. The 'output' supports the following output types:

- steady
- steady delayed
- steady delayed de-activation

The LED itself is always flashing when it is on.
The 4418 has a bilt-in short circuit isolator relay but it is only used during automatic address setting.
Once the address is set the 4418 does not operate as a short circuit isolator.

5.3. COMPATIBILITY TABLE

	Advanced mode	NORMAL mode	2330 mode	2312 mode
EBL512 G3	V ≥ 2.4	All versions	Not used	Not used
EBLOne	V ≥ 3.3	All versions	Not used	Not used
EBL128	V ≥ 2.4	All versions	Not used	Not used
EBL512	Not used	All versions	Not used	Not used

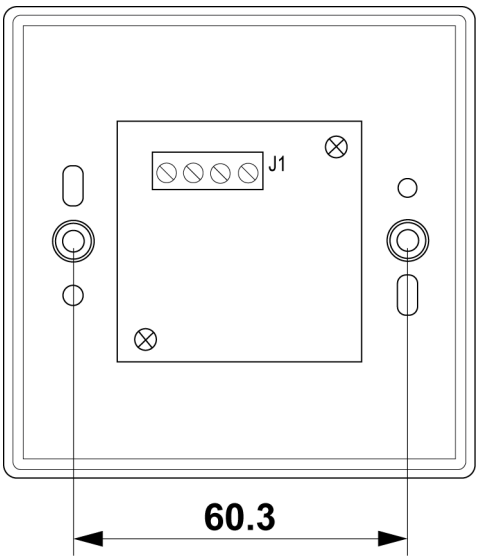
COMPATIBILITY IN NORMAL MODE:
4418 do NOT function together with old detectors type 23xx. 4418 do NOT function with new detectors set in 2330-mode or 2312-mode.

EXCEPTION! 4418 can function together with old detectors type 2330 and 2312 if the 4418 is set to a technical address +128.

Example: A detector type 2330 has address 1. Set the External LED 4418 to address 129.

6. MOUNTING

The external indicator (LED) must be mounted on the wall. Screws are not supplied.



(Measure in mm)

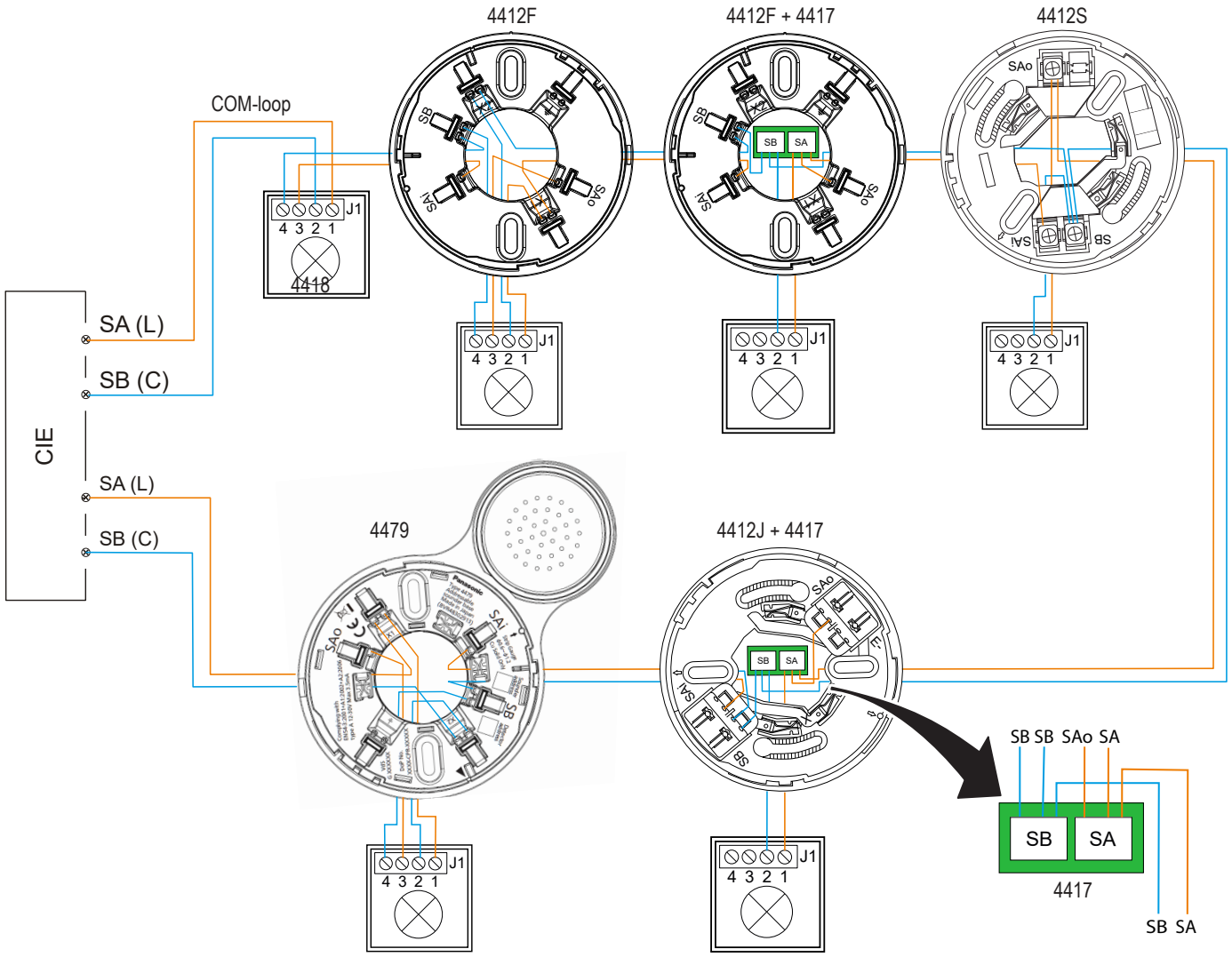
7. INSTALLATION AND WIRING

Screen wire termination is not provided.

4418 can be connected in several different ways:

- Directly to the COM loop
- To an analog base 4412F via 4-conductor interface
- To an analog base 4412F and connection board 4417 via 2-conductor interface
- To a sounder base 4479 via 4-conductor interface
- To an analog base 4412S via 2-conductor interface
- To an analog base 4412J and connection board 4417 via 2-conductor interface

Auto addressing is not supported when 4418 is connected via a 2-conductor interface.



Wire size (Min)	Ø 0.5 mm (0.2 mm²)
Wire size (Max)	Ø 1.8 mm (2.5 mm²)

8. TECHNICAL DATA

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

Voltage: Allowed Normal	 12 – 30V DC 24V DC
Current: Quiescent Active	 1.6 mA 5.2 mA
Address range	001-253
Address setting	Auto-addressing possible in Advanced mode / With address setting tool
Short circuit isolator	No
Internal battery	No
Material	PC/ABS, Lens PMMA
Ambient temperature: Operating Storage	 -10 to +55 °C -25 to +70 °C
Ambient humidity	Maximum 95 % RH (Non condensing)
Ingress protection rating	IP42
Size: H x W x D	 87 x 87 x 30 mm
Weight (including batteries):	63 g
Colour	White

9. APPROVALS

Applicable directive/ Approval	Applicable standards	Notified body
EMC	EN61000-6-3 (Emission) EN50130-4 (Immunity)	Self declaration
RoHS	EN IEC 63000	Self declaration

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