Panasonic



Fire alarm systems Analog multi detector 4300

- Constant sensitivity / Service signal at a fixed level of contamination
- New advanced algorithms and functions and yet compatible with older EBL systems

General

The multi detector contains one photoelectric (optical) smoke detector and one heat detector within the low profile housing. The latest IC technology will secure the highest reliability possible. It has unleaded soldering. In the smoke detection chamber is a high-efficient optical system consisting of an LED and a photodiode with two Scattered light (i.e. reflection of infrared light) is used to detect smoke. The smoke enters the detection chamber through an insect filter and an optical labyrinth. This construction not only improves the smoke inflow, it also causes steam, fog, etc. to condense into moisture on its surfaces, to prevent false (nuisance) alarms.

The **heat** sensing element is a thermistor. The detector is supplied with two LEDs that will light 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 for an external LED, e.g. 2218. The detector is intended for indoor use in dry premises and in the systems **EBL512** / **128** / 1000 / 2000 depending on the detector mode.

Constant sensitivity

The detector maintains a constant sensitivity regardless of its contamination. A service signal will be given when the detector has reached a service level.

Address / Detector mode

The address setting tool 3314 is used to set the detector's COM loop address and the detector mode NORMAL, 2330 or 2312. See Planning Instructions for the system respectively for more information about the modes and functions.

- **NORMAL** mode (analog): Detector 4300 is used in the systems EBL512 (SW version ≥ 2.0) and EBL128, also as a spare part for the detector <u>3316 in</u> NORMAL mode.
- **2330** mode (conventional): Detector 4300 is used in the systems EBL512 / 1000 / 2000 as the best substitute for the detectors 2316 & 2317 + base 2330.
- **2312** mode (analog): Not used for 4300.

The different modes have different functions and features, e.g. in the 2330 mode, the detector does the fire judgement but in the NORMAL mode this is done in the c.i.e. The detector is prepared for an "Advanced mode" to be used in conjunction with future EBLxxx SW versions.

Al function

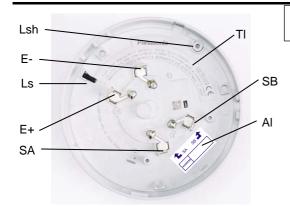
In the 2330 mode is the AI function used, i.e.:

- Combined heat and smoke sensing will guarantee reliable and accurate fire alarm detection.
- Variable delay function, i.e. the delay time before an alarm is influenced by temporary temperature and/or smoke obscuration changes.

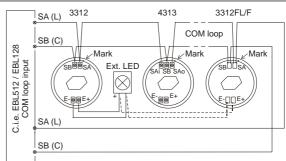


Type number

4300 Analog multi detector



The detector is plugged in the analog base 3312x / 4313. The COM loop / Ext. LED are connected to the analog base.



In the detector:

See also "Engineering Instructions for detectors Type 430x".

SA/SB Contact pins for COM loop / address setting tool 3314

E+/E- Contact pins for External LED

TI Type number label; Detector type

Al Address label; For the programmed COM loop address to be written.

Lsh Locking screw hole (prepared for drilling through detector body)

Ls Locking screw

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 (on COM loop)	24	
Current consumption at nom. volt.		
from COM loop (mA)		
quiescent	0.3	
active (incl. internal LED)	2.3	
ext. LED (connected via base 3312)	max. 2	
Ambient temperature (°C)		
operating	-10 to +50	
storage	-25 to +75	
Ambient humidity (% RH)	max. 95, non condensing	
Ingress Protection rating (estimated)	IP 51	
Sensitivity (obscuration; %/m)	Depending on mode.	
NORMAL mode	2.6./2.0./2.4. (Low./Normal/High)	
2330 mode	3.6 / 3.0 / 2.4 (Low / Normal / High) 5	
2550 mode	>2.5 in combination with temp. rate-of-rise (depending on algorithm)	
Sensitivity (T=°C; <i>deltaT= °C/min.</i>)	Depending on mode.	
NORMAL mode	$56/46/60/74$ (A1; $\leq 4/A1$; $> 4/A2$ (S) / B (S))	
	57: 6.43	
7330 mode		
2330 mode	57, >1.07 in combination with smoke obscur. (depending on algorithm)	
2330 mode Size Ø x h (mm)		
	57; > 1.07 in combination with smoke obscur. (depending on algorithm)	
Size ∅ x h (mm)	57; >1.07 in combination with smoke obscur. (depending on algorithm) 102 x 44	
Size ∅ x h (mm) Weight (g)	57; >1.07 in combination with smoke obscur. (depending on algorithm) 102 x 44 70	

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
MEW00307	2003-04-24	6 / 2008-09-15

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