



Fire alarm systems

Photoelectric smoke detector 4452

- Low profile design
- Latest IC technology / highest reliability
- Unleaded soldering

General

The photoelectric (optical) smoke detector has a low profile design. In the detection chamber is a high-efficient optical system consisting of an LED and a photodiode with two lenses. Scattered light (i.e. reflection of infrared light) is used to detect smoke. The latest IC technology is used to secure the highest reliability possible.

Reduces false fire alarms

The smoke enters the detection chamber through an insect filter and an optical labyrinth. This construction not only improves the smoke inflow but it also causes steam, fog, etc. to condense into moisture on its surfaces, to prevent false (nuisance) alarms. Furthermore the detector has a smart alarm algorithm which reduces the risk for false fire alarms.

Environment friendly

The detector has unleaded soldering. The latest IC technology reduces the number of semiconductors and other electronic components to a minimum.

Compatibility

The conventional photoelectric smoke detector 4452 is a substitute for the photoelectric smoke detector 4352.

Miscellaneous

The detector is plugged in a conventional base (2324), connected to a conventional zone line input. The base has an LED that will light when the detector goes into alarm. There are also terminals in the base to connect an external LED, e.g. 2218.

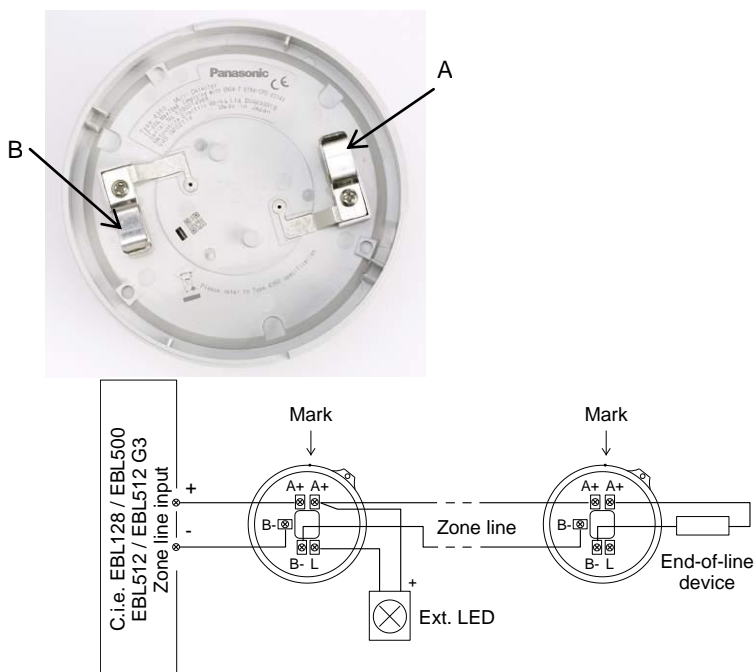
Product applications

The detector is intended for indoor use and in dry premises. It is excellent to detect large, bright smoke particles as from a smouldering fire.

Used in the systems EBL128 / 500 / 512 / 512 G3.

Type number

4452 Photoelectric smoke detector



In the detector:

See also "Engineering Instructions for detector Type 4452".

- A** Contact for base 2324
- B** Contact for base 2324

The detector is plugged in a base 2324. End-of-line device depending on the zone line input.

Technical data

Voltage (V DC) rated allowed normal	24 12-30 24
Current consumption at nom. volt. (mA) quiescent (detector only) active (detector only)	Depending on the base the detector is plugged into. For more details see the Product Leaflet respectively (e.g. MEW00008 for the Base 2324). 0.04 min. 3
Ambient temperature (°C) operating storage	-10 to +50 -25 to +75
Ambient humidity (% RH)	max. 95, non condensing
Ingress Protection rating (estimated)	IP 51
Sensitivity (obscuration; %/m)	4
Size Ø x h (mm)	102 x 38
Weight (g)	85
Construction / Colour	Modified polycarbonate / Grey (N8, Munsell colour code)
Approvals	CE 13 EC Certificate no. 0786-CPD-21252; EN54-7:2000 + A1:2002 + A2:2006

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
MEW01555	2013-05-08	- / -