



## **Fire alarm systems**

### **Photoelectric smoke detector 4352**

- 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.

The detector has a counter. A reading over the alarm level is +1 on the counter and a reading below the alarm level is -2. The counter starts at 0 and can not be negative. When the counter shows "9" the detector goes into alarm, i.e. a minimum of nine consecutive readings over the alarm level are required before the detector goes into alarm. (One reading per sec.)

#### **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 4352 is a substitute for the photoelectric smoke detector 2321.

#### **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.

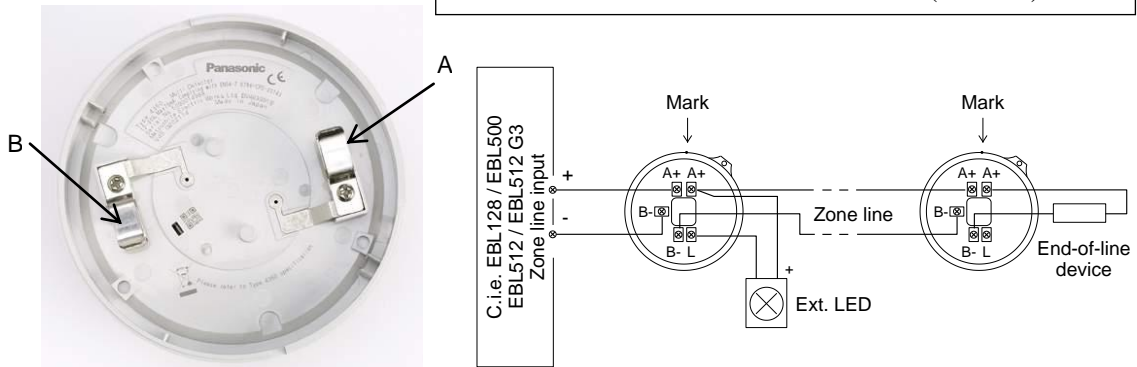
Used in the systems EBL128 / 500 / 512 / 512 G3 / 1000 / 2000.

## Type number

4352

Photoelectric smoke detector

The zone line is connected to the base 2324 (A+ & B-).  
Ext. LED is connected to the base 2324 (A+ & L).



In the detector:

**A** Contact for base 2324

**B** Contact for base 2324

See also "Engineering Instructions for detectors Type 435x".

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

## Technical data

Voltage (V DC)	
rated	24
allowed	12-30
normal	24
Current consumption at nom. volt. (mA)	Depending on the base the detector is plugged into. For more details see the Product Leaflet respectively (e.g. MEW00008 for the Base 2324).
quiescent (detector only)	0.04
active (detector only)	min. 3
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)	4
Size Ø x h (mm)	102 x 38
Weight (g)	82
Construction / Colour	Modified polycarbonate / Grey (N8, Munsell colour code)
Approvals	CE 09 EC Certificate no. 0786-CPD-20142; 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
MEW00310	2002-12-03	10 / 2011-03-11