
DATASHEET

Conventional Photoelectric Smoke Detector

- 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.

ENVIRONMENTALLY 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 direct replacement 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 RIL.

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 with FT420 and FT2FP Panels

TYPE NUMBER

4452 - Photoelectric smoke detector

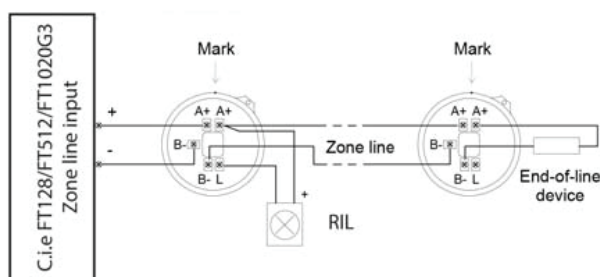


The zone line is connected to the base 2324 (A+ & B-). RIL is connected to the base 2324 (A+ & L).

In the detector:

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

See also "Engineering Instructions for detector Type 4452"



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



Fire Products & Solutions

TECHNICAL DATA

Model Number **4452**

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 Datasheet

Quiescent (base only) 0.04

Active (incl. internal LED) 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 w x h (mm) 102 x 38

Weight **85g**

Construction / Colour Modified polycarbonate / Grey (N8, Munsell colour code)

Approvals AS7240.7:2004, ISO7240.7:2003 and EN54.7:2000+
A1:2002+A2:2006
13 EC Certificate no. 0786-CPD-21252

