FC460 Series Detectors

Who this Leaflet is for

This leaflet is aimed at suitably qualified technicians experienced in the design and specification of fire detection and alarm systems, who have also received training.

What this Leaflet Covers

This leaflet is for use when designing a fire detection system, or replacing detectors in an existing system.

Specifications are provided for determining detector suitability. Information is provided on features that are unique to the series.

What this Leaflet does not Cover

This leaflet does not provide the following:

- Information on detection functionality or guidance on detector type choice. This information is provided in the Detectors Product Application & Design Information document.
- Installation information. This is because the detectors simply dock to detector bases, and installation details are provided in the associated base documentation.

Introduction

The detectors are for use in an addressable system, where a number of detectors are placed in key areas around the building.

For a more detailed introduction, refer to the Product Application & Design Information document.

The next few sections provide information common to all the detector variants in the series.

Specifications

Dimensions

- Height: 42 mm, diameter: 108 mm

Fig. 1: Dimensions

Material

- Plastic: Flame Retardant ABS

Electrical characteristics

- The detectors are designed for use in an addressable system which uses the FireClass Digital Protocol.

Temperature Ranges

The temperature ranges are shown in Table 1.

Detector	Operating Temperature (°C)	Storage Temperature (°C)	Relative Humidity
FC460PH	-25 °C to +70	-40 °C to +80	95 % (non-condensing)
FC460P	-25 °C to +70	-40 °C to +80	95 % (non-condensing)
FC460H	-25 °C to +70 short-term: to +90	-40 °C to +80	95 % (non-condensing)
FC460PC	-10 °C to +55	-20 °C to +55	95 % (non-condensing)

Table 1: Temperature Ranges

Weights

The detector weights are shown in Table 2.

Detector	Weight (Kg)
FC460PH	0.092
FC460P	0.092
FC460H	0.081
FC460PC	0.094

Table 2: Weights

Compatible Bases

The detectors are compatible with the 4B and 4B-I Bases.

Approvals

The detectors comply with the following standards:

- Construction Products Directive (CPD), fulfilling the requirements of:
  - EN 54-5:2000 + A1:2002 - Heat Detectors
  - EN 54-7:2000 + A1:2002 + A2:2006 - Smoke Detectors
- CEA 4021 (2003)- MultiSensor Detectors
- VdS 2806 (1999) - Fire Gas Detectors
- Product family standard EN 50130-4 in respect of Conducted Disturbances, Radiated Immunity, Electrostatic Discharge, Fast Transients and Slow High Energy
- EN 61000-6-3 for Emissions

Ordering Information

The ordering numbers for the different detectors are shown in Table 3.

Detector	Order Number
FC460PH	516.460.501
FC460P	516.460.502
FC460H	516.460.503
FC460PC	516.460.504

Table 3: Ordering Numbers

CPD Information

$C \epsilon$

0832

Control Equipment Ltd.
Hillcrest Business Park
Dudley, West Midlands
DY2 9AP UK
12
0832-CPD-1881

EN54-5 and EN54-7

Digital addressable detector for use in fire detection and alarm systems in buildings
FC460PC

$C \epsilon$

0832

Control Equipment Ltd.
Hillcrest Business Park
Dudley, West Midlands
DY2 9AP UK
12
0832-CPD-1882

EN54-5

Digital addressable detector for use in fire detection and alarm systems in buildings
FC460H

$$C \in$$

0832

Control Equipment Ltd.
Hillcrest Business Park
Dudley, West Midlands
DY2 9AP UK
12
0832-CPD-1883

EN54-7

Digital addressable detector for use in fire detection and alarm systems in buildings

FC460P

$$C \in$$

0832

Control Equipment Ltd.
Hillcrest Business Park
Dudley, West Midlands
DY2 9AP UK
12
0832-CPD-1884

EN54-5 and EN54-7

Digital addressable detector for use in fire detection and alarm systems in buildings

FC460PH

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