FC420CP-I Indoor Addressable Resettable Callpoint
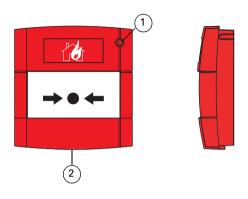

Fig. 1: FC420CP-I Indoor Addressable Resettable Call-point - Overall
1– *Short Circuit Isolator Activation (Yellow) and Alarm Indicator LED (Red)*
2– *Test/Release Key Access*

Introduction

The FC420CP-I Addressable Resettable Callpoint is an indoor manual callpoint.

The callpoint is designed to monitor and signal the condition of a switch contact that is operated by activating the resettable element.

The FC420CP-I has an integral short-circuit isolator for monitoring the field wiring.

The FC420CP-I callpoint meets the requirements of EN54 Pt. 11 and EN54 Pt. 17.

Technical Specification

Table 1 shows the technical specification information.

Parameter	Value
System Compatibility	Use only with FIRE-CLASS Fire Alarm Controllers
Environment	Indoor Application only
Operating Temperature	-10 to +55 $^{\circ}$C
Storage Temperature	-30 to +70 $^{\circ}$C
Relative Humidity	Up to 95 % non-condensing
Dimensions (HWD)	93 x 89 x 27.5 mm
Weight	110 g
Mounting Requirements	Surface/Flush Mounting

Table 1: Technical Specifications

Terminals

Table 2 shows the terminal information.

Description	Marking	Comment
Loop Interface	1	Loop+ IN
	2	Loop- Left
	3	Loop+ OUT
	4	Loop- Right

Table 2: Terminals

Address Programming

The FC420CP-I has a default factory set address of 255.

The FC420CP-I is programmed with the address prior to installation using an address programming tool. The associated ancillary programming lead plugs into the programming port (see Items 1and 2 in Fig 2). Refer to Fig 2 for proper orientation.

⚠ NOTICE

Ensure that the pins of the ancillary programming lead are inserted completely into the lower row of the programming port (see item 7 in Fig 2) for effective communication with the Address programming tool.

ℹ Site Drawings

Once the address has been programmed, take note of the device location and address number, to include on site drawings.

Mounting & Cabling
How to mount the FC420CP-I

1 Connection to the FC420CP-I is made via the 4 way terminal connector as shown in Fig. 3, ensuring correct polarity.

   Each terminal can accommodate a conductor of up to 2.5 mm^2.

2 The FC420CP-I is fitted to a standard KAC surface mount plastic backbox, standard single gang metal plaster box (35 mm for flush mounting) or standard single gang metal plas-

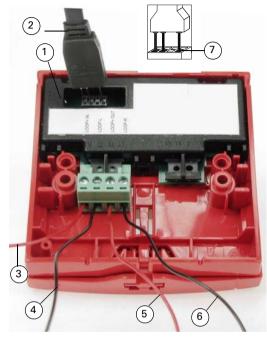ter box (25 mm) with KAC backbox. (See Fig 3 for overall dimensions).

Fig. 2: FC420CP-I Rear View and Wiring Information
1– Ancillary Programming Port
2– Ancillary Programming Lead
3– Connected to Loop+IN
4– Connected to Loop-Left
5– Connected to Loop+Out
6– Connected to Loop-Right
7– Programming Lead Orientation

ℹ Knockouts
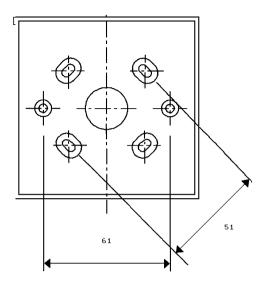
Plaster boxes should have 20 mm knockouts.

Fig. 3: FC420CP-I Fixing Dimensions Surface Mount Backbox

3   Mount the backbox to a suitably flat surface using the fixing holes and the screws provided in the installation kit.

4   Insert the test/reset key fully into the bottom of the front cover and pull down to remove the cover. Carefully, remove the resettable element and the detachable lid exposing the 2 fixing holes.

5   Insert the screws into the fixing holes to fix the housing onto the back box.

6   Fit the resettable element and the replaceable lid and slide the bottom of the housing upwards until it clicks into position.

7   Select all cables in accordance with local standards.

8   Couplers are to be used with MICC cable.

Wiring Notes

■   There are no user-required settings (such as switches or headers) on the FC420CP-I.

■   All wiring must comply with local installation regulations and local fire system design requirements.

■   All conductors to be free of earths. For typical wiring configuration see Fig. 2.

■   Verify the correct polarity of the wiring before connecting the FC420CP-I to the addressable loop circuit. Fit the callpoint housing to the KAC backbox.
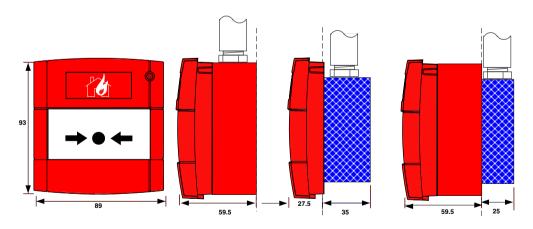

Fig. 4: FC420CP-I Overall Fixing Dimensions

Ordering Information

Components	Ordering Numbers
FC420CP-I Indoor CP with isolator - no B/B	514.800.805
KAC Backbox	515.001.021

Table 3: Ordering Information

CPR Information

$$C\,E$$

0832

Control Equipment Ltd
Hillcrest Business Park
Cinderbank Dudley
West Midlands DY2 9AP
UK

14
DoP-2014-2011

EN 54-11 and EN 54-17

Manual callpoint with Short-Circuit Isolator for fire detection & fire alarm systems for buildings

Type A, Indoor

FC420CP-I

$$C\,E$$

0832

Essential Characteristics

EN54-11

Nominal activation conditions / Sensitivity and Performance under fire conditions: Pass

EN54-17

Performance under fire conditions:Pass

EN54-11 and EN54-17

Operational reliability: Pass

Durability of operational reliability temperature resistance: Pass

Durability of operational reliability; vibration resistance: Pass

Durability of operational reliability; humidity resistance: Pass

Durability of operational reliability; corrosion resistance: Pass

Durability of operational reliability; electrical stability: Pass