FC420CP-I Indoor Addressable Resettable Callpoint
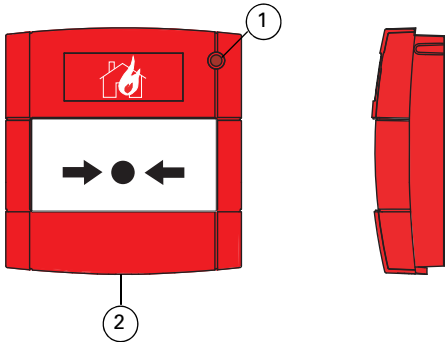

Fig. 1: FC420CP-I Indoor Addressable Resettable Callpoint - Overall
1– *Short Circuit Isolator Activation (Yellow) and Alarm Indicator LED (Red)*
2– *Test/Release Key Access*

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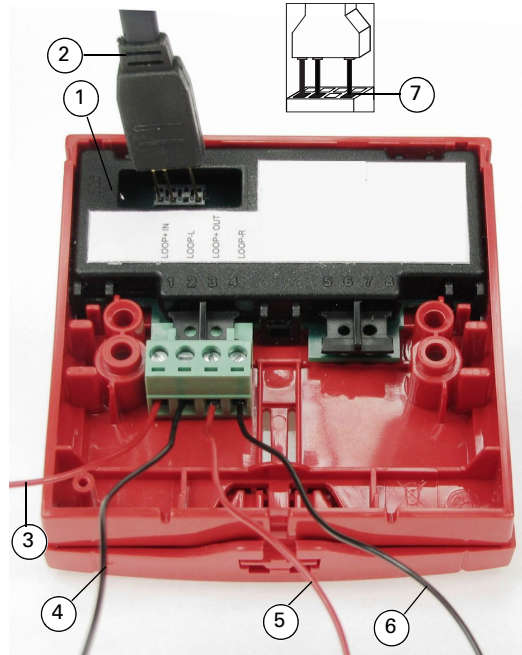

Fig. 2: FC420CP-I Rear View and Wiring Information
1– Ancillary Programming Port
2– Ancillary Programming Lead
3– Connected to Loop+ IN
4– Connected to Loop-Left
5– Connected to Loop+ Out
6– Connected to Loop-Right
7– Programming Lead Orientation

ℹ **Knockouts**

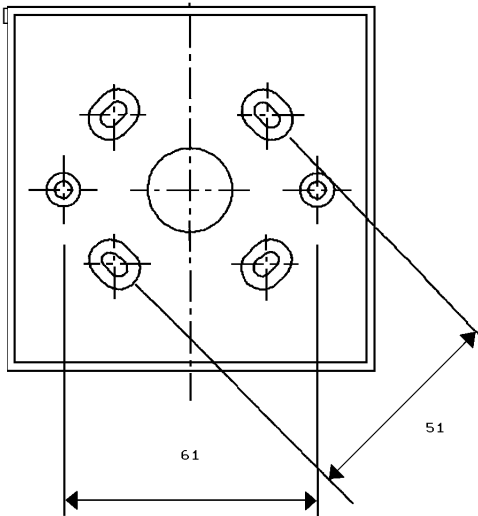Plaster boxes should have 20 mm knockouts.

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.
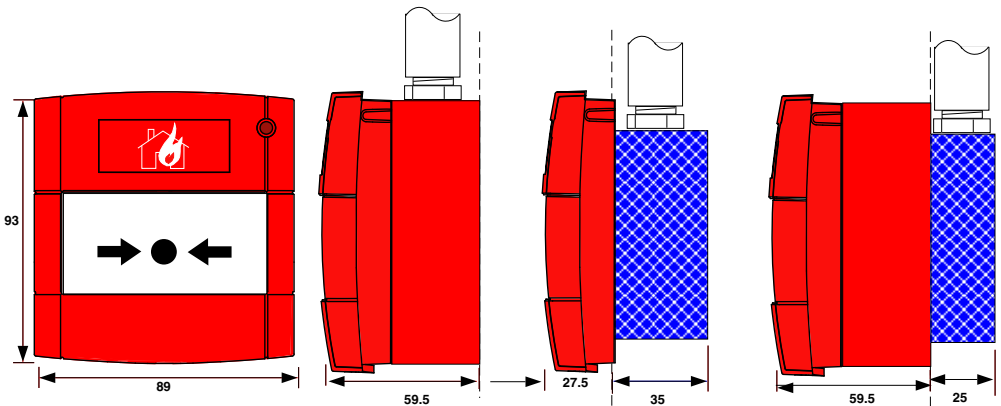

Fig. 4: FC420CP-I Overall Fixing Dimensions

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

$$\mathrm{C}\,\mathrm{E}_{2831} \qquad \mathsf{UK}\,\mathsf{CA}_{0832}$$

Tyco Fire & Security GmbH,
Victor von Bruns-Strasse 21,
8212 Neuhausen am Rheinfall,
Switzerland
15
2831-CPR-F1759
23
0832-UKCA-CPR-F1099
DoP-2015-4169

EN 54-11 and EN 54-17:2005
Manual callpoint with Short-Circuit Isolator for fire detection & fire alarm systems for buildings
Type A, Indoor
FC420CP-I

Essential Characteristics
EN54-11
Nominal activation conditions / Sensitivity and Performance under fire conditions: Pass
EN54-17:2005
Performance under fire conditions: Pass
EN54-11 and EN54-17:2005
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

Isolator Specification Guide A16381RMK0_EN

FIRECLASS

www.fireclass.com
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