

CP820/CP820M/CP820(R) INDOOR ADDRESSABLE BREAK GLASS CALLPOINTS

PRODUCT APPLICATION AND DESIGN INFORMATION

1. INTRODUCTION

The CP820/CP820M/CP820(R) Addressable Break Glass Callpoints are designed to monitor and signal the condition of a switch contact which is operated by breaking a glass sheet. The type of alarm generated by the callpoint is configured in 'MX CONSYS'.

The callpoints meets the requirements of EN54 Pt. 11.

The Callpoint is fitted to a standard KAC surface mount plastic backbox, standard single gang metal plaster box (35mm for flush mounting) or standard single gang metal plaster box (25mm) with KAC backbox.

Note: Plaster boxes should have 20mm knockouts.

2. MECHANICAL CONSTRUCTION

The housing consists of a combined test, reset and lid release mechanism, main assembly and back box. These components retain the break glass element. The main assembly contains the switch and PCB cover. An addressable module is fitted to a cradle that clips into the back of the PCB cover. A red LED is provided at the front of the main assembly providing a visual indication of the condition of the internal switch.

Flying leads for field wiring are brought out through the back of the PCB cradle.

Note: The callpoint is not suitable for external mounting.

3. OPERATION

The Callpoint consists of a switch contact which is operated by breaking the glass sheet. When the callpoint is addressed by the controller, it signals the condition of this switch contact to the controller. The LED on the front of the callpoint is normally OFF, until the glass is broken, then it is turned ON until the glass is replaced.

The callpoint is resettable, it can be tested at any time with the aid of the callpoint reset key provided. Insert the key fully into the bottom of the housing and pull down and remove, to release the bottom of the housing and break glass element. To reset the callpoint, slide the bottom of the housing upwards until it locks in position.

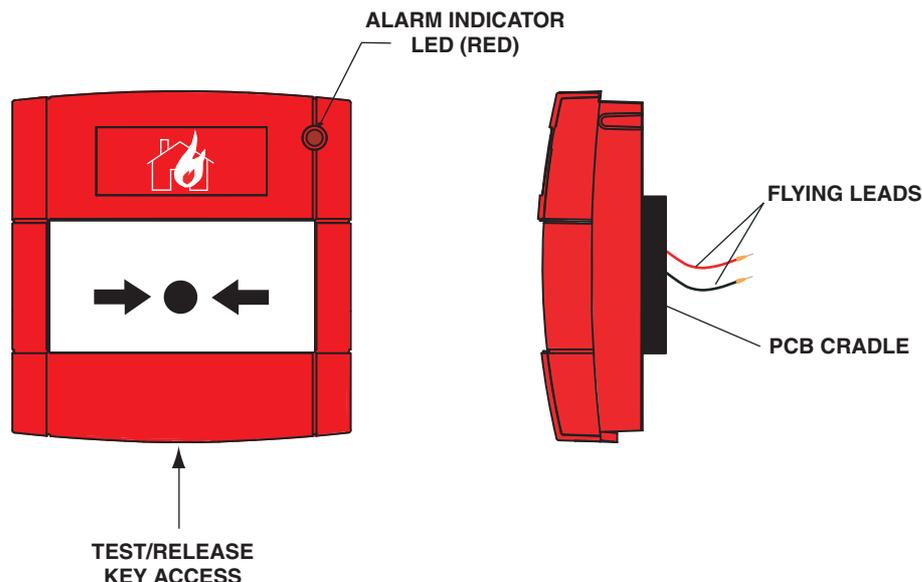


Fig. 1 CP820/CP820M/CP820(R) Addressable Break Glass Callpoint

800 SERIES

17A-02-MCP820

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4. TECHNICAL SPECIFICATION

Type Identification Value 129 (CP820)
131 (CP820M)
140 (CP820(R))

Overall Dimensions

Height: 93mm
Width: 89mm
Depth: 59.5mm (27.5mm if flush mounted)
Weight: 110g (without backbox)

Material

Housing: PC/ABS (C1200HF)

Environmental

Operating Temperature: -10°C to +55°C
Storage Temperature: -30°C to +70°C
Relative Humidity: up to 95% RH (non-condensing)

EMC:

The callpoint complies with the following:

Product family standard EN50130-4 in respect of
Conducted Disturbances, Radiated Immunity,
Electrostatic Discharge, Fast Transients and Slow High
Energy

EN 61000-6-3 for Emissions

Electrical Characteristics

Battery requirements:

Quiescent: 0.46mA

Alarm: 4.5mA

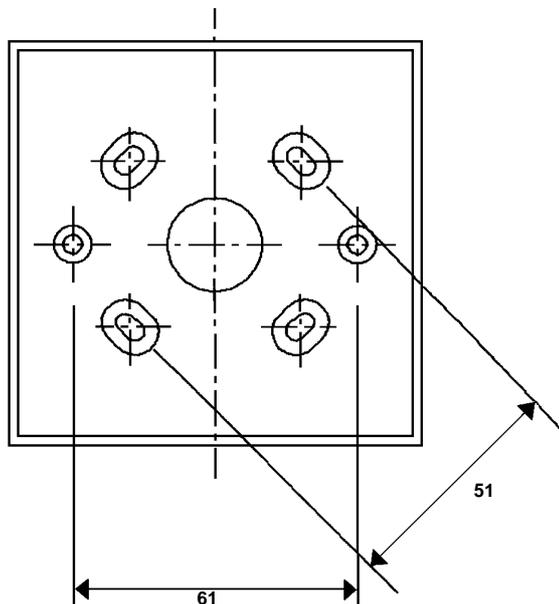


Fig. 2 CP820/CP820M/CP820(R) Backbox Fixing Dimensions Surface Mounting

5. ADDRESS PROGRAMMING

The callpoint has a default factory set address of 255, this must be set to the loop address of the device using the 801AP MX Service Tool. The callpoint is programmed with its address using the programming port at the rear of the callpoint before mounting to the backbox as shown in Fig. 4.

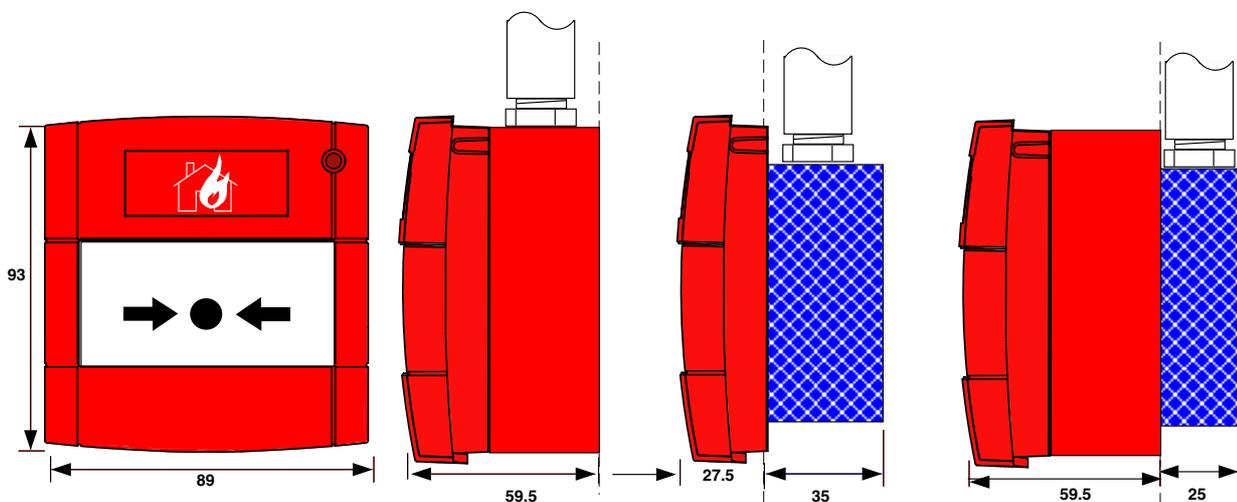


Fig. 3 CP820/CP820M/CP820(R) - Overall and Fixing Dimensions

6. CABLING

Cables are to be selected in accordance with the MX design document. Cabling should be connected as shown in Fig. 5, ensuring correct polarity.

Note: Couplers are to be used with MICC cable.



ADDRESS PROGRAMMING PORT

Fig. 4 CP820/CP820M/CP820(R) - Address Programming Port

7. ORDERING INFORMATION

CP820 Break Glass Callpoint (ADT):	514.800.603.A
CP820 Break Glass Callpoint (Thorn):	514.800.603.T
CP820 Break Glass Callpoint (Tyco):	514.800.603.Y
CP820M Break Glass Callpoint (Marine):	514.800.605.T
CP820(R) Break Glass Callpoint (Thorn Premier):	514.800.603.R
MCP EN54 Pt11 Spare Glass (pk 5):	515.001.119
KAC Backbox:	515.001.021

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19th September 2008

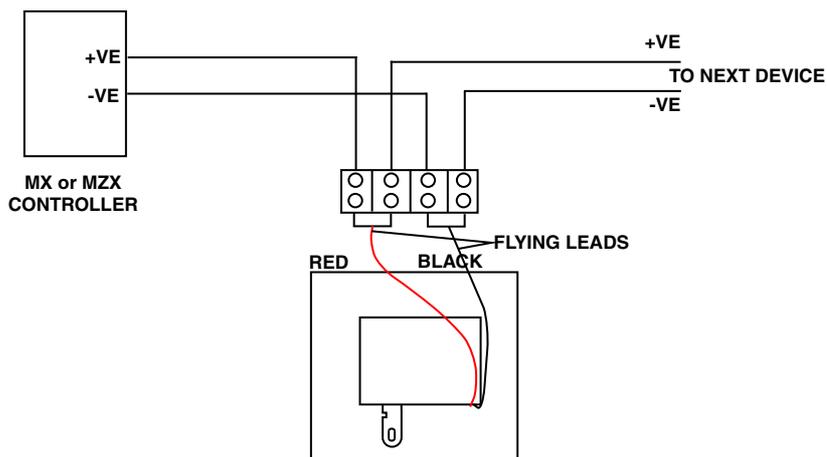


Fig. 5 CP820/CP820M/CP820(R) - Simplified Wiring Diagram