

MCP820M BREAK GLASS CALLPOINT

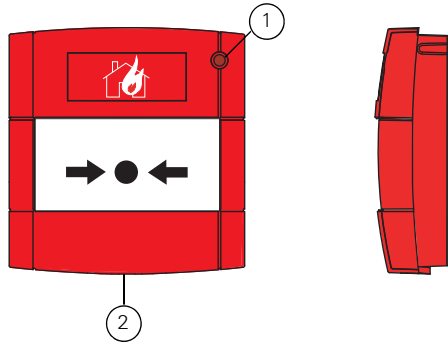


Fig. 1: MCP820M Break Glass Callpoint - Overall
 1- Short Circuit Isolator Activation (Yellow) and Alarm Indicator LED (Red)
 2- Test/Release Key Access

Introduction

The MCP820M Addressable Break Glass Callpoint is an indoor callpoint for marine applications.

The callpoint is designed to monitor and signal the condition of a switch contact that is operated by breaking a glass sheet.

The MCP820M has an integral short-circuit isolator for monitoring the field wiring.

The MCP820M 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 MX T2000 Fire Alarm Controllers
Environment	Indoor Application only
Operating Temperature	-10 to +55 °C
Storage Temperature	-30 to +70 °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



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Address Programming

The MCP820M has a default factory set address of 255.

The MCP820M 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 1 and 2 in Fig 2). Refer to Fig 3 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.



Site Drawings

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

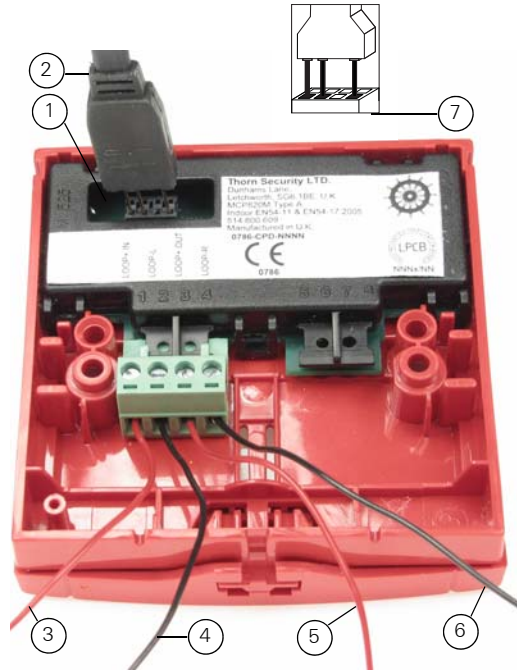


Fig. 2: MCP820M Rear View and Wiring Information

- 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

Mounting & Cabling

How to mount the MCP820M

- 1 Connection to the MCP820M is made via the 4 way terminal connector as shown in Fig. 2, ensuring correct polarity.

Each terminal can accommodate a conductor of up to 2.5 mm².

- 2 The MCP820M is fitted to a standard KAC break glass callpoint backbox, standard single gang metal plaster box (27.5 mm for flush mounting) or standard single gang metal plaster box (25 mm). (See Fig 4 for overall dimensions).

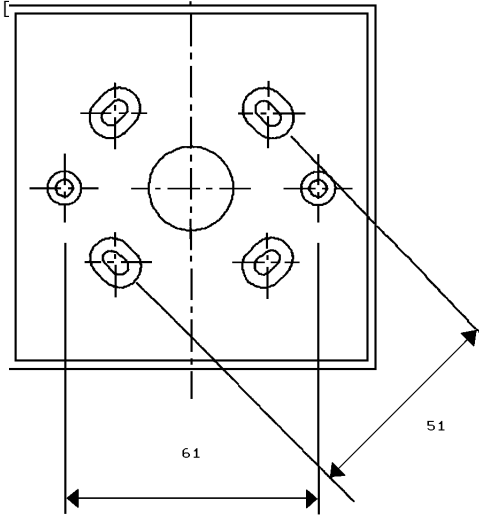


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Knockouts

Plaster boxes should have 20 mm knockouts.



- 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/release key fully into the bottom of the front cover and pull down to remove the cover. Carefully, remove the glass 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 glass 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.

Fig. 3: MCP820M Fixing Dimensions Surface Mount Backbox

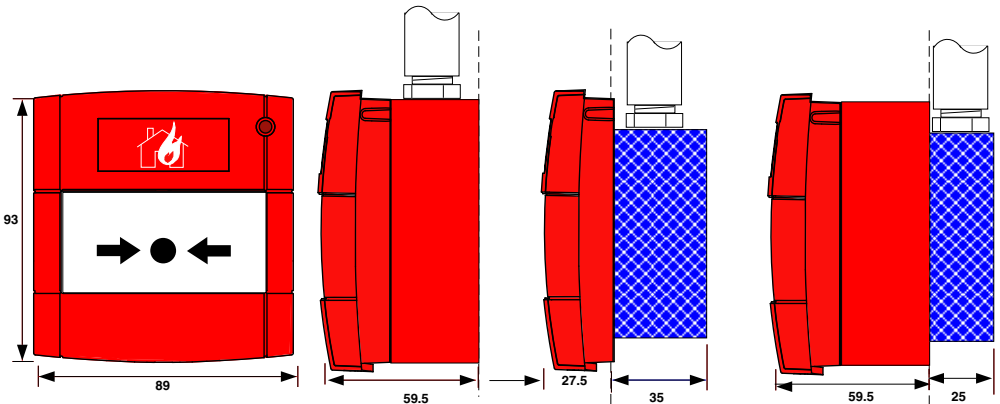


Fig. 4: MCP820M Overall Fixing Dimensions



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Wiring Notes

- There are no user-required settings (such as switches or headers) on the MCP820M.
- All wiring must conform to the current edition of the local standards.
- All conductors to be free of earths. For typical wiring configuration see Fig. 4.

Ordering Information

Components	Ordering Numbers
MCP820M Break Glass Callpoint	5 14.800.609
MCP EN54 Pt 1 1 Spare Glass (pk 5)	5 15.001.119
KAC Backbox	5 15.001.021

Table 3: Ordering Information

CPR Information



Tyco Fire & Security GmbH
Victor von Bruns-Strasse 21
8212 Neuhausen am Rheinfall
Switzerland
15
DoP-2015-4080

EN 54-11 and EN 54-17

Manual callpoint with Short-Circuit Isolator for fire detection & fire alarm systems for buildings
Type A, Indoor
MCP820M

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



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