MCP830

Weatherproof Break Glass Callpoint

ZETTLER

The MCP830 Weatherproof Addressable Break Glass Callpoint is an outdoor MX addressable manual callpoint. The callpoint is designed to monitor and signal the condition of a switch contact that is operated by breaking a glass sheet.

Any change in the status of the switch is immediately communicated to the control panel. The MCP830M is fitted onto a standard KAC weatherproof backbox, which is supplied with the callpoint. The MCP830 has an integral short-circuit isolator for monitoring the field wiring. The MCP830 callpoint meets the requirements of EN54 Pt. 11 and EN54 Pt. 17.

Mechanical Construction

The housing consists of a combined test, reset and lid release mechanism, main assembly incorporating lid moulding and KAC weatherproof cover, plus weatherproof backbox. The lid release mechanism and lid moulding retain the break glass element.

The lid moulding contains the switch assembly. A dual colour status indicator LED is provided on the front cover. Cables may enter into the callpoint via cable gland entries at the top and bottom of the KAC weatherproof backbox. The KAC weatherproof backbox may only be surface mounted. An addressable module is secured within the main assembly. The terminals are used for connection to the addressable circuit.



Features

- Communication and control interface to MZX-Technology Fire Controllers
- Approved to EN54-13 ensuring system compatibility
- Integrated short-circuit isolator removes the need of installing a separate short-circuit isolator
- Reduced installation costs
- Meets the requirements of EN54 Pt. 11 and EN54 Pt. 17.
- IP67 rating for outdoor installations

Operation

The MCP830 consists of a switch contact which is operated by breaking the glass sheet. When the callpoint is operated, it signals the condition of this switch contact to the control panel. The LED is illuminated in red to indicate the 'ALARM' condition. As the callpoint is resettable, it can be tested at any time with the aid of the callpoint test key provided. To release the front of the housing, the key is fully inserted into the bottom of the housing and pulled down, this releases the break glass element and the callpoint is operated. To reset the callpoint, the key is removed and the bottom of the housing is pushed upwards until it locks. If a section of the loop wiring adjacent to the MCP830 is shorted, the built in short-circuit isolator trips, isolating the shorted section. The LED is illuminated in yellow to indicate that the isolator is tripped. This status remains until the short is removed.

MCP830
Weatherproof Break Glass Callpoint

Table 1 shows the technical specification information.

Parameter	Value
Material Housing and KAC Weatherproof Cover: KAC Weatherproof Backbox:	Flame Retardant ABS Glass reinforced
Environment	Outdoor applications
Operating Temperature	-25 to +70 °C
Storage Temperature	-30 to +70 °C
Operating Humidity	Up to 95 % non-condensing
Dimensions (HWD)	93 x 97.5 x 73 mm
Weight	240 g
IP Rating	IP67
Approvals	Product family standard EN50130-4 in respect of Conducted Disturbances, Radiated Immunity, Electrostatic Discharge, Fast Transients and Slow High Energy EN61000-6-3 for emissions Construction Product Directive (CPD) fulfilling the requirements of: – EN 54-11:2001+A1:2006 for Manual Callpoints – EN 54-17:2005 for Short-Circuit Isolators

Terminals Fig. 2 shows connection to the MCP830 made via the 4 way terminal onnector as shown in table 2.

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

Ordering Information

514.800.612 MCP830 Break Glass Callpoint
515.001.119 MCP EN54 Pt11 Spare Glass (pk 5)



Fig. 2: MCP830 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

ZETTLER, is a leading brand of fire detection products in the European market. The ZETTLER fire detection product line includes a wide range of EN54 CPD approved fire detection products carrying approvals and cross-listings, including VdS and NF. The ZETTLER product lines are available through ZETTLER Authorised Distributors as well as many Johnson Controls offices around the world.

Tyco Fire & Security GmbH, Victor von Bruns Strasse 21, CH-8212 Neuhausen am Rheinfall, Switzerland

© 2017 Johnson Controls. All rights reserved. All specifications and other information shown were current as of document revision date and are subject to change without notice.

PSF272ZT Issue – 1. October 2015 www.zettlerfire.com

ZETTLER