MCP820

Generation 6 *MX* Detection Range Isolator Manual Call Point

Features

- Compatible with *MX* Addressable Loop on VIGILANT *MX1* and VIGILANT MX4428 panels
- Integral short circuit isolator
- LED status indicator)
- EN54-11 certification
- Compact, modern styling
- Test key for fast testing

The MCP820 Addressable Manual Call Point is suitable for indoor applications. As supplied, it is suitable for flush mounting. A surface mounting back box is available separately. The MCP820 is designed to monitor and signal the condition of a switch contact that is operated by breaking a plastic coated glass frangible element (flexible plastic option available). Any change in the status of the switch is immediately communicated to the Tyco MX Control and Indicating Equipment (CIE).

The MCP820 has an integral short-circuit isolator for monitoring the addressable loop wiring. The integral LED indicator is normally off. When the frangible element is broken, an alarm is registered and the LED will illuminate red. If a section of the loop wiring adjacent to the MCP820 is shorted, the built-in shortcircuit isolator trips, isolating the shorted section and the LED is illuminated yellow. The status remains until the short is removed.

Specifications

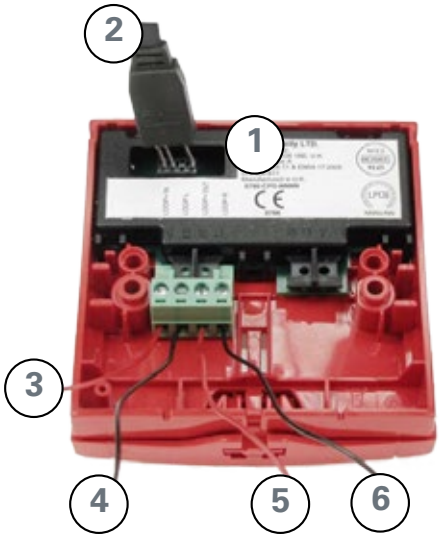
Loop Voltage[1]	20V to 40Vdc
Quiescent Current	280µA
Alarm State Current	2.8mA
Max. MCP820 / Loop[2]	200/250
Environment	Indoor Application only
Ambient Temperature	−10°C to +55°C
Storage Temperature	−30°C to +70°C
Relative Humidity	10% to 95% (non cond.)
Ingress Protection	IP24D
Dimensions (HWD)	93 x 89 x 45mm
ActivFire Listing	afp-2874 (EN54-11:2001)

Part Numbers

514.800.611	Manual Call Point (no back box)
SU0632	Surface Mounting Back Box
515.001.025	Frangible Glass Element (packet of 5)
515.001.127	Flexible Plastic Element
SC070	Test Key (packet of 10)
SU0615	Transparent Hinged Cover

1. Addressable loop voltage provided by *MX* CIE.
2. MX4428/*MX1*. Refer to LT0273 (MXP), LT0360 (*MX1*-NZ), LT0441 (*MX1*-Au) for design specifications.

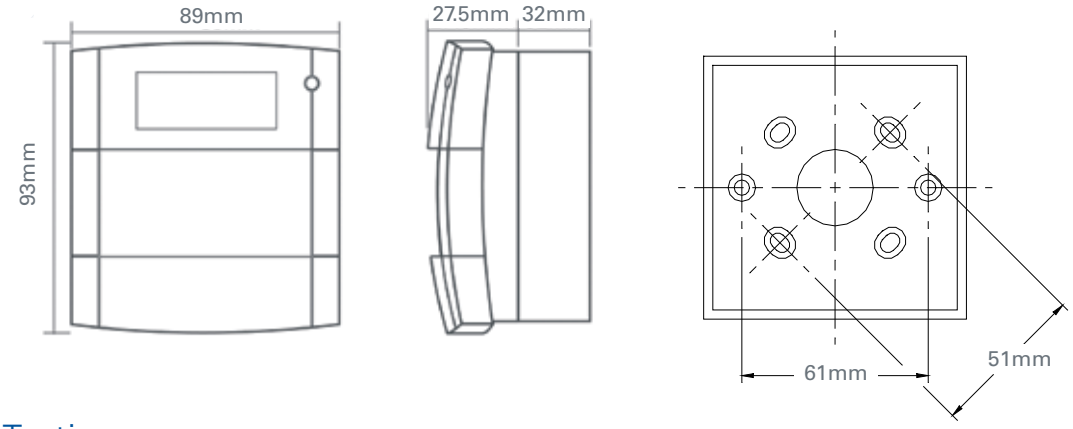
MCP820 Wiring Details - Rear View



The MCP820 has a factory set (invalid) address of 255. The MCP820 is field programmed with the address prior to installation using an *MX* address programming tool. The associated ancillary programming lead plugs into the programming port.
Ensure that the pins of the ancillary programming lead are inserted completely into the lower row of the programming port for effective communication with the address programming tool.

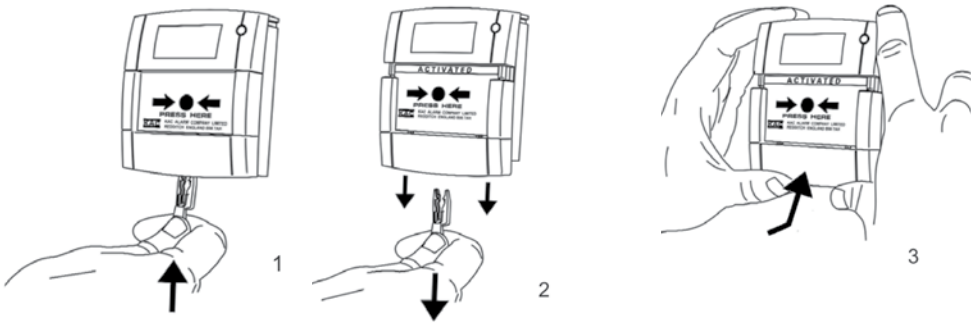
1	Ancillary programming port
2	Ancillary programming lead
3	Connected to Loop + IN
4	Connected to Loop - IN
5	Connected to Loop + OUT
6	Connected to Loop - OUT

Installation



The MCP820 may be fitted to a standard (surface mounting) call point back box which is available separately.

Testing



A test key is provided with each MCP to allow easy testing of the switch mechanism and wiring, without breaking the frangible element. The key is inserted into a slot in the base of the MCP, allowing the frangible element to drop away from the switch, thus activating it and registering an alarm at the CIE. Note: the key should not be left with the MCP after commissioning, but may be left inside the CIE for convenience.

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