



[http://www.fike.co.uk/  
resource-downloads/twinflex/](http://www.fike.co.uk/resource-downloads/twinflex/)

### General Description

The Twinflex Manual Call Point (MCP) allows for user activation of the fire alarm system. Once operated the device latches into the alarm position and requires manually resetting via a special key.

This device is compatible with the range of Twinflex Fire Alarm Control Panels and comprises a 2-wire zone-powered Manual Call Point (MCP). This device may be installed on the same zone as the Twinflex Multipoint detector/sounder and other associated Twinflex devices.

### Before Installation

The MCP must be installed in compliance with the control panel installation manual. The installation must also meet the requirements of any local authority.

### Spacing

Fike recommends spacing of call points in accordance with any local authority.

### Device Installation

All wiring must be installed in compliance with the recommendations laid out by any local authority as well as any special recommendations documented in the control panel installation manual. The cabling used should be of a 2-core 1.5mm<sup>2</sup> screened, fire resistant type (e.g. FP200 equivalent), and is to be wired in the form of a screened 2-core radial circuit (with no spurs) from the control panel, terminating at the last ("End of Line") device.

Site cables may be terminated into the connectors, as shown overleaf. Care should be taken when terminating devices to ensure all cables are correctly sleeved and connections are secure. Improper connections will prevent a system from responding properly in the event of a fire.

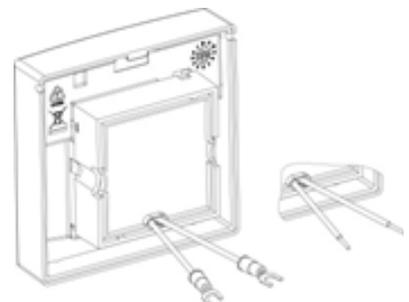
The MCP may be flush mounted utilising the optional adaptor plate, combined with any standard single gang flush mounting back box (with a minimum internal depth of 47mm). Terminate your site cables directly into a flying terminal block. If using a metal back box, **do not** connect the screen to the back box earth terminal or allow it to come into contact with the metal box.

Please remember that all high voltage testing must be carried out before connection of the MCP front unit otherwise damage may be caused.

Once all testing has been carried out on the cabling and 'continuity & integrity' has been proven, the MCP front may be fitted.

If surface mounting, connect the MCP wires into the appropriate terminals on the back box according to the wire colours.

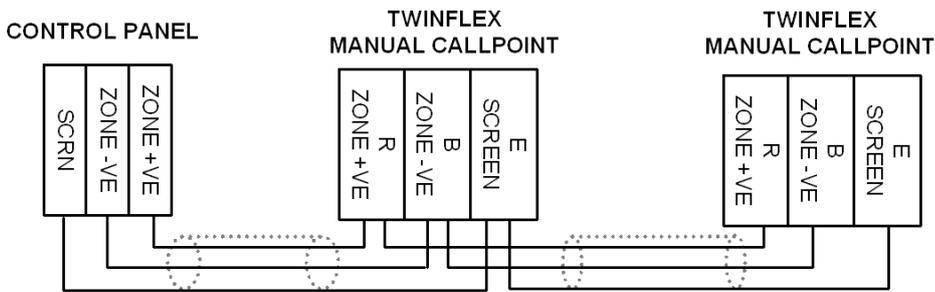
If the MCP is being flush mounted, cut off crimp fork terminals, strip ends for desired length and twist conductor strands together neatly. After installing the back box securely, attach the adaptor plate using the two screws provided, and terminate the MCP wires into the flying terminal block.



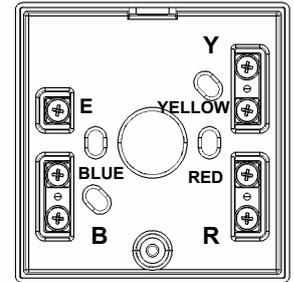
The MCP is installed by locating the upper mounting hook into the receiver in the back box and then pushing the unit gently home. The single fixing screw may then be tightened as required.



## Connections



Note: Red = Zone +ve ; Blue = Zone -ve



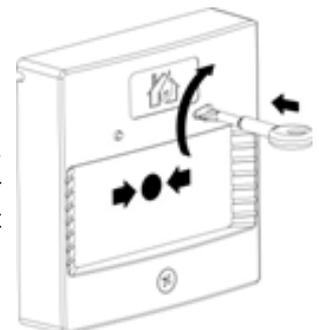
Twinflex MCPs can be mixed on the same zone as other types of Twinflex device (eg. Twinflex Multipoint Detectors). The above diagram shows how to make the zone positive, zone negative and screen connections between the control panel and Twinflex MCPs. Refer to the instruction leaflets supplied with other Twinflex devices for their equivalent wiring/terminal labelling details.

Please note that the E terminal on the MCPs should only be connected to the zone cable screen and NOT to the building earth. The cable screen is connected to earth at the panel end only, via the zone "SCRNR" terminal (or EARTH terminal on the Twinflex V3 2/4/8 Zone panels). It is important to maintain the screen/earth continuity in order to protect against data corruption from interference.

**Remember that the device at the end of the line must have its EOL signal activated using the relevant EOL switch. Do not use a resistor or capacitor (or another manufacturer's End of Line device) as the end of line, as this may prevent correct operation of the zone.**

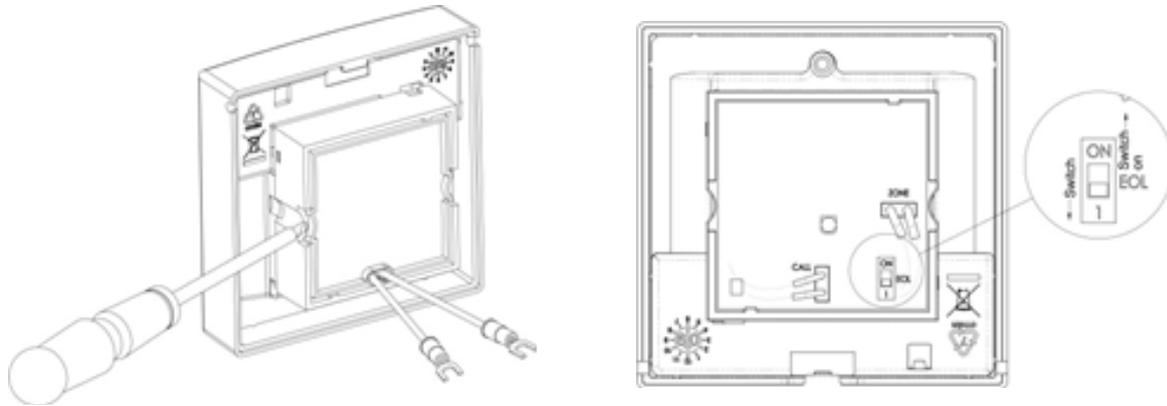
## Reset and Test

The MCP contains a re-settable element, which latches in position when operated and does not need to be replaced. Inserting the key as shown and turning it clockwise until the element clicks back into place will reset the unit. Testing the MCP may be carried out either by pressing the element or by using the key in the same manner as for resetting but without having pressed the element.



## MCP DiI Switch Settings

The last device on the circuit must have its EOL signal enabled. Remove the cover as shown, then locate the switch and set it to 'ON'.



|                                    |   |                         |                                  |
|------------------------------------|---|-------------------------|----------------------------------|
| <b>Dimensions</b>                  | Width x Height.....   | 87mm x 87mm             |                                  |
|                                    | Flush Depth.....  | 25mm                    |                                  |
|                                    | Surface Depth.....  | 53mm                    |                                  |
| <b>Operating Temperature</b>       | .....   | -10°C to +50°C          |                                  |
| <b>Voltage Ranges</b>              | DC Output from Mains Powered Panel.....                         | 25.5 to 35V DC          |                                  |
|                                    | DC Output from Battery Powered Panel.....                       | 20 to 26V DC            |                                  |
| <b>Operating Current (Typical)</b> | Quiescent.....  | 50 uA                   |                                  |
|                                    | End of line ON if applicable.....<br>(in addition to Quiescent) | 720 uA                  |                                  |
|                                    | Alarm Activated.....  | 16.5 mA                 |                                  |
| <b>LED Operation</b>               | Alarm Indication.....   | Pulsed twice per second |                                  |
|                                    | EOL indication.....   | 5 second interval       |                                  |
| <b>Loading Units</b>               |   | <b>V3 Panel</b>         | <b>Pro/Pro<sup>2</sup> Panel</b> |
|                                    | Max Loading Units per zone.....                                 | 27 SLU                  | 160 DLU                          |
|                                    | Twinflex MCP.....   | 3.0 SLU                 | 33 DLU                           |
| <b>Flammability</b>                | .....   | UL94-V2                 |                                  |
| <b>IP Rating</b>                   | .....   | IP 21C                  |                                  |
| <b>Part Codes</b>                  | Twinflex MCP.....   | 402 0006                |                                  |

## Technical Support

Contact your supplier for technical support on this product.

Due to the complexity and inherent importance of a life risk type system training on this equipment is essential, and commissioning should only be carried out by competent persons. Fike cannot guarantee the operation of any equipment unless all documented instructions are complied with, without variation.

Fike's policy is one of continual improvement and the right to change a specification at any time without notice is reserved. Whilst every care has been taken to ensure that the contents of this document are correct at time of publication, Fike shall be under no liability whatsoever in respect of such contents. E&OE

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| <b>Fike Safety Technology Ltd</b><br><b>Unit 31, Springvale Ind. Est.</b><br><b>Torfaen, NP44 5BD</b><br><b>11</b><br><b>DoP-402-0006</b>                           |             |
| <b>EN54-11: 2001 +A1: 2005</b><br><br><b>402-0006</b><br><br><b>Intended for use in the fire detection and fire alarm</b><br><b>Systems in and around buildings</b> |             |
| Essential characteristics   | Performance |
| Nominal activation conditions/Sensitivity, response delay (response time) and performance under fire conditions   | Pass        |
| Operational reliability   | Pass        |
| Tolerance to supply voltage   | Pass        |
| Durability of operational reliability and response delay, 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        |



Fike Safety Technology Ltd  
 Unit 31, Springvale Industrial Estate  
 Cwmbran  
 NP44 5BD  
 Tel: 01633 865 558 | Email: [fstinfo@fike.com](mailto:fstinfo@fike.com)