

402-0006 Twinflex Manual Call Point

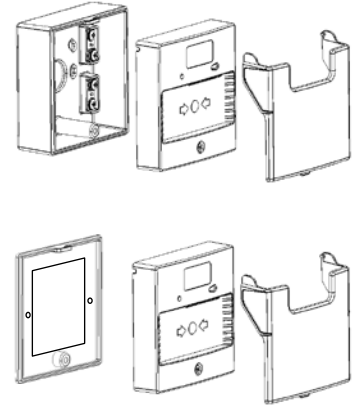


General Description

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.

An optional clear front cover is available if required (Part No. 25-0083-303).



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. For maximum performance the MCP should be installed in compliance with BS5839 Pt1 : 2002 + A2 : 2008.

Spacing

Fike recommends spacing of call points in accordance with BS5839 Pt1. For more specific information regarding MCP spacing, placement and special applications please refer to BS5839 Pt1 : 2002 + A2 : 2008.

Device Installation

All wiring must be installed in compliance with the recommendations laid out by BS5839 Pt1 : 2002 as well as any special recommendations documented in the control panel installation manual. The cabling used should be of a 2-core 1.5mm² screened, fire resistant type (e.g. MICC or 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.

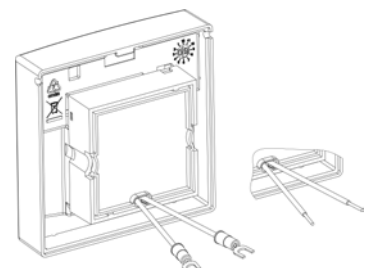
The MCP may be flush mounted utilising the optional adaptor plate, combined with any standard single gang flush mounting back box (with a minimum internal depth of 47mm). Terminate your site cables directly into a flying terminal block. If using a metal back box, **do not** connect the screen to the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

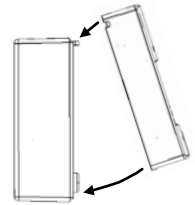
Once all testing has been carried out on the cabling and 'continuity & integrity' has been proven, the MCP front may be fitted.

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

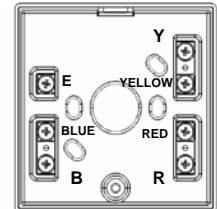
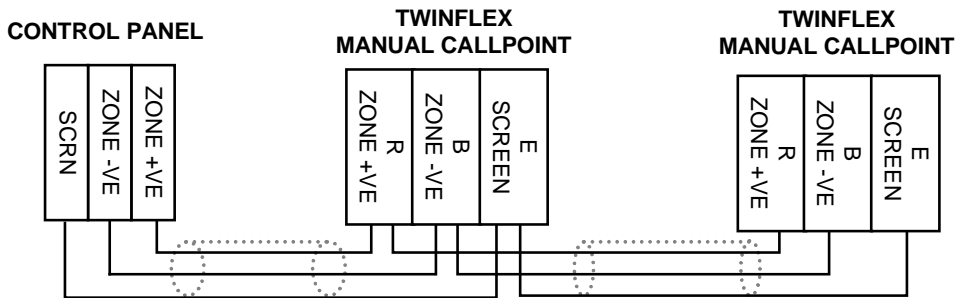
If the MCP is being flush mounted, cut off crimp fork terminals, strip ends for desired length and twist conductor strands together neatly. After installing the back box securely, attach the adaptor plate using the two screws provided, and terminate the MCP wires into the flying terminal block.



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

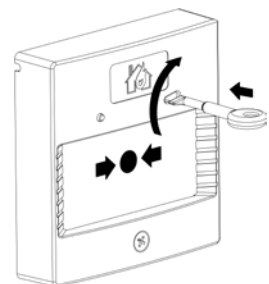
Twinflex MCPs can be mixed on the same zone as other types of Twinflex device (eg. Twinflex Multipoint Detectors). The above diagram shows how to make the zone positive, zone negative and screen connections between the control panel and Twinflex MCPs. Refer to the instruction leaflets supplied with other 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 “SCRN” 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.

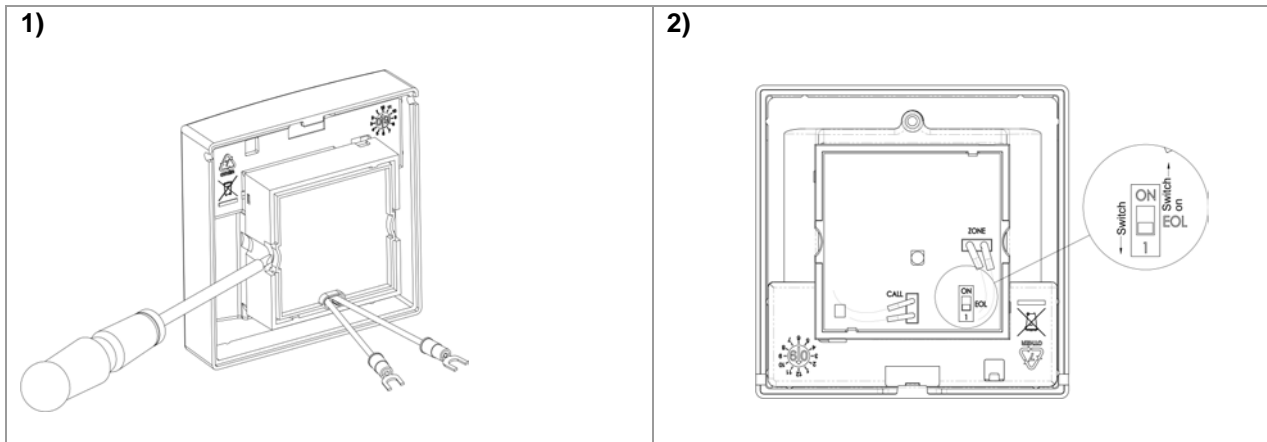
Reset and Test

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.



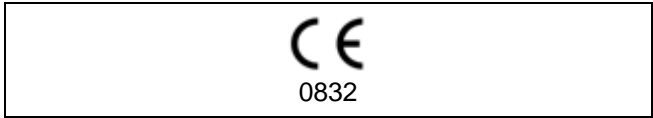
MCP DIL Switch Settings

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'.



Technical Data

Dimensions	Width x Height	87mm x 87mm
	Flush / Surface Depth	25mm / 53mm
Operating Temperature	-10°C to +50°C
Voltage Ranges	DC Output from Mains Powered Panel ...	25.5 to 35V DC
	DC Output from Battery Powered Panel..	20 to 26V DC
Operating Current (Typical)	Quiescent	50 uA
	End of line ON if applicable	720 uA
	<i>(in addition to Quiescent)</i>	
LED Operation	Alarm Activated	16.5 mA
	Alarm Indication	Pulsed twice per second
	EOL indication	5 second interval
Loading Units		V3 Panel Pro Panel
	Max Loading Units per zone	27 SLU..... 160 DLU
	Twinflex MCP.	3.0 SLU 16.0 DLU
Flammability	UL94-V2
IP Rating	IP 21C
Part Code	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. This unit complies with the EMC directive.

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.

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, Vibration resistance	Pass
Durability of operational reliability, Humidity resistance	Pass
Durability of operational reliability, Corrosion resistance	Pass
Durability of operational reliability, Electrical stability	Pass