FIKE SAFETY TECHNOLOGY LTD.

INSTALLATION AND MAINTENANCE INSTRUCTIONS

402-0006 Twinflex Manual Call Point
402-0007 Twinflex Weatherproof Manual Call Point

Unit 31 Springvale Industrial Estate | Cwmbran NP44 5BD, United Kingdom | +44 (0) 1633 865 558

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

It is recommended that the spacing of Manual Call Points is carried out 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^2 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.

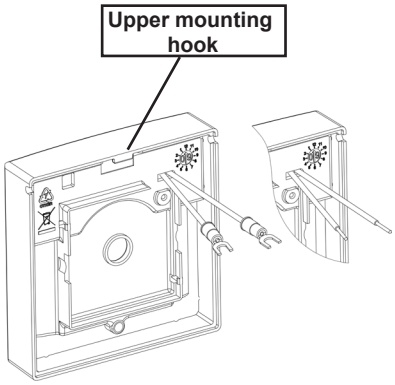
Site cables may be terminated into the connectors, as shown overleaf. Care should be taken when terminating devices to ensure all cables are correctly sleeved and connections are secure. Improper connections will prevent a system from responding properly in the event of a fire.

Please remember that all high voltage testing must be carried out before the installation 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.

Manual Call Point Installation

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.

If surface mounting, connect the MCP wires into the appropriate terminals on the back box.



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.

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Weatherproof Manual Call Point Installation

Fix the wall mounting plate in a suitable position using the holes / slots. Drill out 20mm holes in back box in the required positions for cable glands.

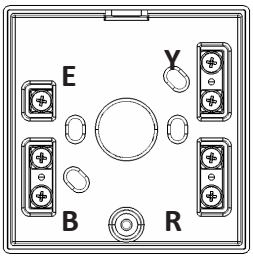
Note: Holes must be clean and free of burrs and surface imperfections. This is critical for seal integrity. IP68 cable glands suitable for cable diameter used must be fitted in accordance with manufacturer's instructions to maintain the IP rating of the unit.

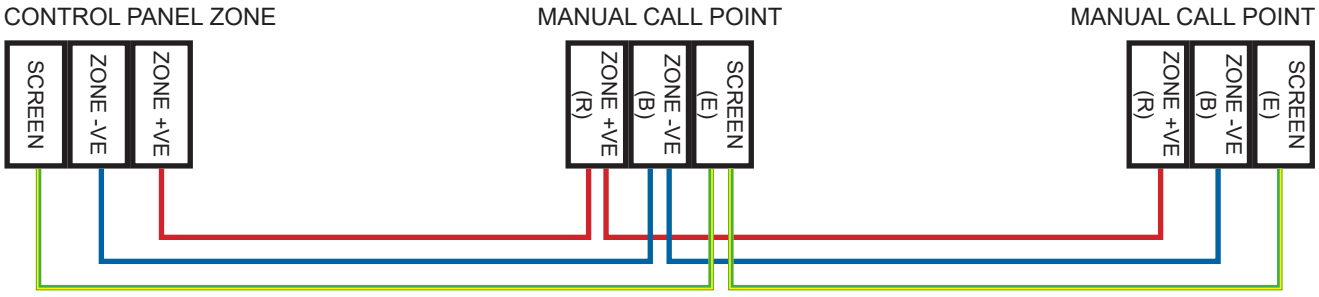
Fit the back box onto the wall mounting plate and terminate cables. Site cables may be terminated into the connectors, as shown below. Care should be taken when terminating devices to ensure all cables are correctly sleeved and connections are secure. Improper connections will prevent a system from responding properly in the event of a fire.

Connect the wires from the MCP front into the appropriate terminals in the back box. The MCP front is then fitted by pushing the front interface plate onto the backbox and tightening the four fixing screws, before locating the upper mounting hook of the MCP front unit onto Interface Plate and then pushing the unit gently home. The single fixing screw may then be tightened as required.

Connections

The cabling should be 2-core 1.5mm^2 screened/earthed and fire resistant,of an FP200 equivalent type and is to be in the form of a 2-core radial circuit terminating at the End of Line device.





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 instructions of 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.

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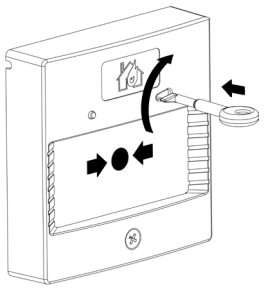
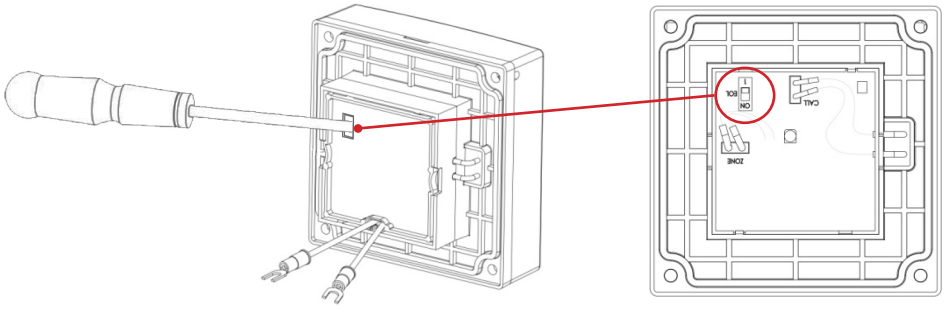


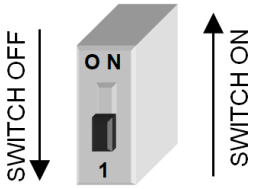
Reset and Test

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 by pressing the element.

MCP Dil Switch Settings

The last device on the circuit must have its EOL signal enabled. Locate the switch and use a terminal driver to set it to 'ON' position.





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		Standard MCP	Weatherproof MCP
Dimensions	Width x Height	87mm x 87mm	87mm x 87mm
	Flush Depth	25mm	
	Surface Depth	53mm	70mm
Flammability		UL94-V2	UL94-V2
IP Rating		IP 21C	IP 65*
Part Codes		402 0006	402 0007
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 (in addition to Quiescent)	720 uA	
	Alarm Activated	16.5 mA	
LED Operation	Alarm Indication	Pulsed twice per second	
	EOL indication	5 second interval	
Loading Units		**V3 Panel**	**Pro/Pro² Panel**
	Max Loading Units per zone	27 SLU	160 DLU
	Twinflex MCP & WP MCP	3.0 SLU	16 DLU

* Not EN54-11 Tested

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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DoP-402-0006 DoP-402-0007

EN54-11: 2001 +A1: 2005

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Intended for use in the fire detection and fire alarm Systems in and around buildings

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

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