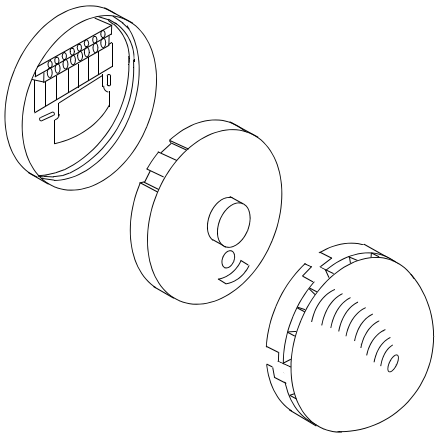
302-0012 Low Profile & 302-0022 Domed Twinflex Flashpoint

General Description

The Twinflex Flashpoint device allows for audible and visual indication when the system enters an alarm condition. This device is compatible with the Twinflex 2-wire range of Fire Alarm equipment and comprises of a 2-wire zone-powered sounder. This device may be installed on the same zone as the Multipoint detector/sounder and associated Twinflex devices.



Before Installation

The Flashpoint 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 Flashpoint should be installed in compliance to BS5839 Pt1 : 2002 + A2 : 2008.

Spacing

Fike recommends spacing of sounders and strobes in accordance with BS5839 Pt1. For more specific information regarding sounder 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 1.5mm^2 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.

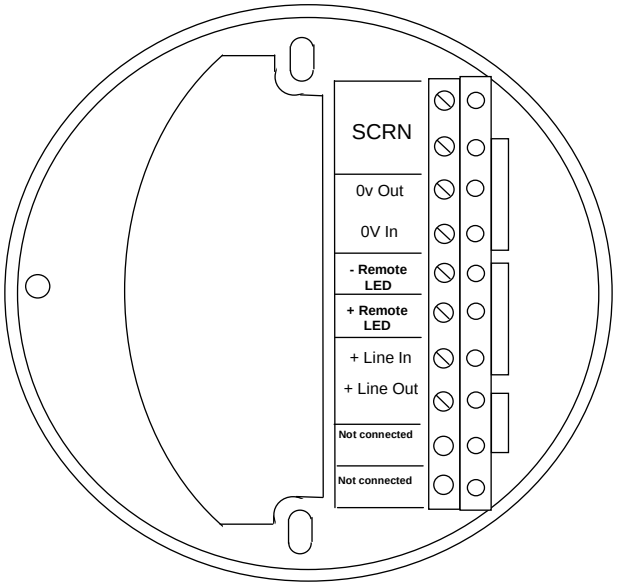
Fix the base in a suitable position using the two screw slots provided remembering to allow enough cable length for termination. You may then terminate your cables directly into the terminal block according to the terminal labels.

Once all testing has been carried out on the cabling and ‘continuity & integrity’ has been proven, the Flashpoint unit may be fitted. To insert the Electronics Module, locate the pins and gently push it home. To fit the translucent cover, gently offer it into the base, rotating the cover until it drops in and clicks into its locked position.

Please remember that all high voltage testing must be carried out before the installation of the Flashpoint front unit otherwise the electronics will be damaged.

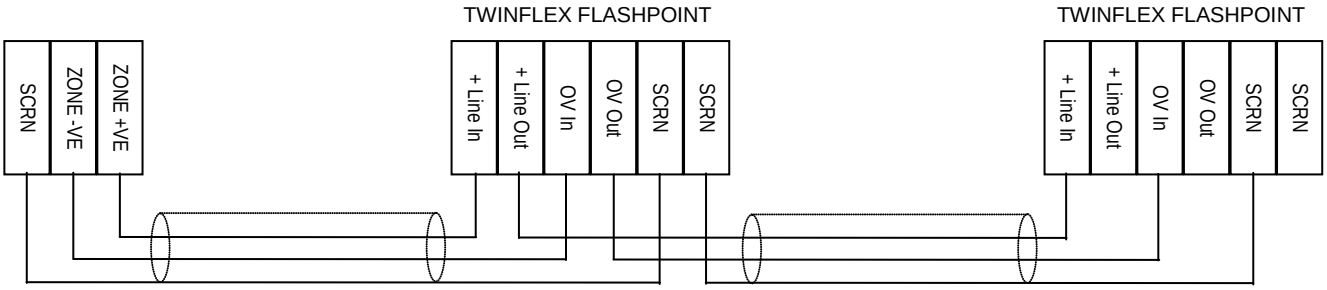
Connections

Terminal	Description
SCRN	Screen
0V Out	Zone -ve out to next device
0V In	Zone –ve in from panel (or previous device)
– Remote LED	Remote LED output -ve
+ Remote LED	Remote LED output +ve
+ Line In	Zone +ve in from panel (or previous device)
+ Line Out	Zone +ve out to next device



Note: The “+ Line Out” and “0V Out” terminals must <u>not</u> be used on the last device in the zone.

Remember that the device at the end of the line must have its EOL signal activated using the relevant DIL 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.



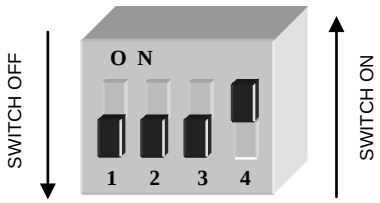
Twinflex Flashpoints can be mixed on the same zone as other types of Twinflex device (eg. Twinflex Multipoint Detectors). The above diagram shows how to make the zone positive, zone negative and screen connections between the control panel and Twinflex Flashpoints. Refer to the instruction leaflets supplied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

Please note that the SCRN terminal on the Flashpoint bases 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 continuity in order to protect against data corruption from interference.

DIL Switch Settings

The detector DIL switches may be used to program the operation of the Flashpoint Sounder / Beacon. They may be altered when the device is removed from the base.

The last device on the circuit must have the EOL signal enabled (switch number 1 in the 'ON' position).



			DIL SWITCH SETTINGS			
			1	2	3	4
End of line	Enabled		ON			
	Disabled		OFF			
Sound Levels	High			ON		
	Low			OFF		
Sound Patterns	Sound OFF	Beacon ON			ON	ON
	Dual Tone UK Evacuate – 800 & 970 Hz	Beacon ON			ON	OFF
	Slow Whoop Up - 500 to 1200 Hz sweep up	Beacon ON			OFF	OFF
	Dual Tone French Warble – 440 & 550 HZ	Beacon ON			OFF	ON

Technical Data

Dimensions	Diameter.	105mm	
	Depth	45mm (Low Profile) / 62mm (Domed)	
	Flush Depth Protruding	34 mm	
	Surface Depth	62 mm	
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	223 uA	
	End of line ON if applicable *(in addition to Quiescent)*	198 uA	
	Alarm Sounding – Sounder High	23.5 mA	
	Alarm Sounding – Sounder Low	15 mA	
	Beacon	5.5 mA	
Volume Level (@ 1m anechoic, Dual Tone)	Sounder High	90+ dB(A)	
	Sounder Low	65+ dB(A)	
Loading Units		V3 Panel	Pro Panel
	Max Loading Units per zone	27 SLU	160 DLU
	Sounder High.	6.0 SLU	33.0 DLU
	Sounder Low	3.1 SLU	18.0 DLU
	Beacon	2.7 SLU	16.0 DLU
LED Operation	EOL indication	5 second interval	
Beacon Operation	Period	1s	
	Flash Duration	15 ms	
Flammability		UL94-V2	
IP Rating		IP 21C	
Part Codes	Low Profile	302 0012	
	Domed	302 0022	

Maintenance

There are no user serviceable parts inside. Wipe the outside of the Flashpoint with a damp (not wet) cloth.

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.

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11
DoP-302-0012, DoP-302-0022

EN54-3: 2001 +A1: 2002 +A2: 2006
Sounder Technical Data: See 26-0747

302-0012, 302-0022
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
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
Durability of operational reliability, Resistance to ingress	Pass