PRODUCT CATALOGUE

**FIRE ALARM SOLUTIONS
THAT FIT YOUR NEEDS**

Fike®

FIKE SAFETY TECHNOLOGY LTD.

About Fike Corporation

Fike is a globally recognised supplier of products and services that protect people, critical assets and facilities from hazards such as fire. With over 65 years experience in manufacturing safety solutions, Fike has grown into a global company with customers and offices on 6 continents.

Fike's growth is based on 3 key principles: Innovation, Quality, and Customer Service. All Fike products and services are designed to meet or exceed customer and industry standards - technologically advanced, fast and flexible. From a sophisticated fire alarm system to early warning detection, Fike has the right fire alarm solution ... at a cost that fits your budget. And Fike's highly-trained customer and technical service employees deliver quick answers to your product, capability and technical questions. Fike's broad range of fire alarm products designed for the markets requiring European approvals, include:

- TWINFLEX®pro 2-Wire Fire Alarm System
- Duonet® and Quadnet® Multi-Loop, Networked Intelligent Addressable Systems
- Multipoint Advanced Multi-Criteria Detection Technology
- Signi*Fire*™ Video Image Flame and Smoke Detection

Fires can (and do) occur. Fike has the right fire alarm solutions to meet your needs, your business and your budget. But, it's not just about the products ... it's the Fike people that make the difference. No matter what your application, Fike works with you to provide innovative solutions, quality made products and outstanding service.

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Risk Assessment

The "Fire Precautions (Workplace) Regulations" require any business employing five or more persons to hold a written 'Fire Risk Assessment' and 'Emergency Plan'. This must then be periodically reviewed.

The local fire brigade can enforce compliance, and close any building that does not meet this act.

In the event of a fire in a building without a written 'Fire Risk Assessment', those responsible may face fines and imprisonment and/or private litigation.

What the law requires you to do:

- Complete a fire risk assessment for your work place (considering all employees, the public, disabled people and people with special needs).
- Identify and record any significant findings or persons at risk.
- Provide and maintain fire precautions.
- Provide information, instruction and training.
- Nominate persons responsible to implement your emergency plan.
- Consult employees about the above nominations and your proposals to improve fire precautions.
- Inform other employers who may have work places in the building about any significant risks which may affect their safety and cooperate with them to reduce/control these risks.
- If you are not an employer, but control premises which contain more than one workplace, you are responsible for complying with the fire regulations.
- You must establish a suitable means of contacting the emergency services.
- Your employees must co-operate to ensure the workplace is safe from fire and its effects.

A fire risk assessment should identify:

- Possible hazards.
- Sources of ignition.
- Persons at risk of fire.
- Means of escape.
- Fire detection and alarm systems.
- Fire fighting facilities.
- Routine procedure in the event of fire.
- Any difficulties with the above and plans to put them right.

System Zoning

In order to aid identification of the source of a possible fire, the protected building should be divided into 'zones'. When deciding on a suitable zoning scheme for a building, consideration should be given to the size, any existing fire routines, escape routes, zone accessibility and structural fire compartmentalisation.

The following guide lines should be observed:

If the total floor area of the building is less than 300m^2 then the building needs only one zone, regardless of the number of storeys.

If the total floor area is greater than 300m^2:

The maximum area for a zone is 2000m^2.
- If a stairwell (or similar) extends beyond one floor it should be a separate zone.
- If a zone covers more than one fire compartment then the zone boundaries should follow the compartment boundaries.
- The search distance in order to ascertain the position of the fire should not exceed 30m. Remember that the use of Remote Indicator lamps may help to reduce the distance travelled.
- If a building is divided between occupiers, zones must not be shared between them.

Manual Call Points

A 'Manual Call Point' is a device which enables personnel to raise an alarm in the event of a fire incident by pressing a frangible element to activate the alarm system.

Manual Call Points should be installed at a height of 1.4m above floor level at easily accessible, conspicuous positions, on exit routes, at the entry to floor landings of staircases and at all exits to the open air.
Manual Call Points should be spaced so that one may always be found within a maximum distance of 30m apart.

Automatic Detectors

When deciding on the type of detector to be used in any area it is important to remember that the detector has

to discriminate between a genuine fire and the normal conditions existing therein, e.g. smoking in staff rooms, steam from bathrooms, kitchen fumes, vehicle and forklift truck fumes in warehouses, etc.

Generally all types of detectors should be sited on the ceiling at the highest point of the area to be covered. Detectors mounted at greater heights have a reduced efficiency and in these cases further advice should be sought.

Smoke Detectors General

In open spaces under flat horizontal ceilings, every point should lie within 7.5m of a smoke detector.

To help prevent unwanted alarms, heat detectors or some other form of detection may be necessary to use in place of more standard smoke detection. Smoke detection should generally be avoided in the following areas:

- Dusty areas where contamination may cause unwanted alarms and reduce the life of the detector.
- Showers, bathrooms and external areas should be avoided as the water vapour may cause unwanted alarms and reduce the life of the detector.
- Where gases, vapours or fumes are present.
- At low temperature where ice or condensation can affect detector sensitivity.
- Kitchens, garages, welding shops and boiler houses.

Heat Detectors General

In open spaces under flat horizontal ceilings, every point should lie within 5.3m of a heat detector.
Heat detectors are designed to either detect a rapid rise in temperature or to operate at a fixed temperature. Although they provide a slower response time than smoke detectors, they do provide a method of protection for areas where smoke detectors cannot be used.

Heat detectors should not be used for the protection of life or where extensive property loss may be expected.

Detection in Apex Roofs

If the ceiling is pitched or sloping, smoke will tend to rise towards the highest point (apex) of the roof, therefore detection should be placed in the apex. As the slope tends to reduce the delay before smoke or heat reaches the detectors, it is permissible to use a greater spacing between the detectors mounted in these types of applications.

The spacing of the smoke detectors in the apex only, may be increased by 1% for every degree of slope of the ceiling, up to a maximum of 25%.

Fire Alarm Sounders

Fire Alarm sounders should be installed throughout the building with an even distribution, to generally provide a minimum sound level of 65dB(A) or 5dB(A) above any background noise which is likely to persist for more than 30 seconds.

Where the alarm may have to arouse sleeping persons (hotel bedrooms, nursing homes, etc.), a minimum sound level of 75dB(A) is required, at the bed head with all the doors shut.

All fire alarm sounders in a building should produce the same sound, distinct from any other audible warning devices in the building.

Where fire alarm sounders are required in extremely noisy areas e.g. machine shops, it may be necessary to install additional "Visual Indication Beacons".

Cabling

The operation of a fire alarm and detection s ystem depends on the cabling and connections between the components. It is essential that connection between Manual Call Points and Detectors function correctly.

Cables within the system are required to function correctly for significant periods after being attacked by fire, including power supply cables to the control panel, the detection circuits and the fire alarm sounder circuits. Therefore these cables must be correctly rated to withstand these conditions.

Introduction

The responsible person is required under BS5839 to undertake certain tasks with respect to the testing and maintenance of the fire alarm system. The responsible person is also required to liaise with the building maintenance personnel to ensure that their work does not impair or otherwise affect the operation of the fire alarm system, to ensure that a clear space is maintained in the vicinity of detectors, and that call-points remain unobstructed and conspicuous.

Routine Testing

The responsible person should also ensure that routine testing is carried out. If there is a link to a remote monitoring centre it will be necessary to advise the centre prior to a test. On larger systems it may be necessary to isolate building services interfaces to avoid disruption to the occupant. In any case, the panel should provide audible and visual indication that parts of the system are disabled.

Daily

Check that the panel indicates normal operation and that any fault is recorded. Also check that recorded faults have been dealt with.

Weekly

Each week a different Manual Call Point should be operated to test the ability of the control equipment to receive a signal and sound the alarm. The results should be recorded in the log book.

Biannually

The system should be checked by a fire alarm service organisation. This may be the system installer or an approved maintenance company, and is typically arranged via a maintenance agreement which specifies the number of visits and level of service. The agreement should also cover non-maintenance visits, e.g. call outs to attend faults; etc. The standard specifies a number of maintenance tasks, which include a visual inspection of the installation, to ensure that there are no alterations or obstructions which could affect the operation of the system, and functional checks to confirm the operation of the system.

Any defects should be recorded in the log book and reported to the responsible person. A certificate of testing should also be completed and given to the responsible person.

Annually

Each device on the system should be tested for correct operation as before. Any defects should be recorded in the log book and reported to the responsible person. A certificate of testing should also be completed and given to the responsible person.

Action by the User After a Fire

Advise the servicing company and arrange for the system to be tested by them. A certificate of testing should be issued to confirm the system operation following the inspection and any remedial work that is necessary.

Action by the User After Any False Alarm

The user can assist the servicing company in the identification of false alarms by observing the following:

- Always make a note of all illuminated indicators and messages displayed at the control panel.
- Try and identify the activated device. Do not reset system until the incident area has been inspected.

Record any other incidents occurring at the same time which could affect the system, (power supply failure, building works, etc). The service organisation will be more likely to trace the false alarm if the above information is available.

Action by the User Following a Fault

When a fault is reported by the control panel, the user should note all illuminated LEDs, the circumstances at the time the fault occurred, and report to the servicing company. The service company will be able to advise if the system is still able to respond to a fire alarm or whether extra vigilance should be observed until the fault is rectified. Faults should not be left unreported.

Multi-Criteria Detector, Micro-Processor Control and Integral Sounder / Strobe

The Multipoint and ASD detectors have set new standards in detector technology. Using microprocessor control, even in the two wire detector, Multipoint offers the installer a full range of detection capabilities with audible warning, in one compact device. The addressable ASD detector also has the option of an integral strobe for DDA compliance. The Multipoint and ASD detectors can be matched to the environment in which they are installed and changed any time during the lifetime of the installation. The mode of detection required can be changed simply by configuring the DIL switch in the detector electronics module (configurable via commissioning software on addressable systems). All modes are compliant with European detector type specifications.

The TWINFLEX Intelligent two wire detector can be set to any one of the above modes as well as a Combined Mode (Smoke 2 & Heat 2) where a smoke or heat source can trigger a fire decision. The end user is given optimum fire protection, even if the installer is unsure of the use of the particular area where the detector is sited. All TWINFLEX products, including the Multipoint detector, feature an End of Line switch, negating the need for end-of-line resistors.

The intelligent addressable Multipoint and ASD detectors offer multiple choices for detection, set to one mode or a combination, for a choice of up to 15 different settings. Programmable via a PC or at the panel (Quadnet and Duonet only), the addressable Multipoint and ASD also have an in-built loop isolator as well as an I/O for local control and switching – see the "Addressable" section for further details.

The Multipoint and ASD detectors have the unique benefit of an optional full specification integral sounder, where 90dBA output can be achieved. The TWINFLEX Intelligent two wire detector can be set to 3 different sound patterns, as well as switched off, with 2 sound output levels. Intelligent addressable Multipoint and ASD detectors have 7 different sound patterns and 3 volume settings. The ASD has the option of a combined strobe.

To ensure the detection capabilities of the Multipoint and ASD detectors are never compromised they self-calibrate every 6 hours. They also continuously monitor for dust contamination until, depending on the environment, it reaches a point where the chamber becomes saturated.

Before this can develop into a false alarm situation, the panel will indicate that the Multipoint or ASD in question requires attention.

The Multipoint and ASD detectors feature the following modes of detection:

SMOKE 1

Used where ionisation detectors are normally fitted especially when there are high ceilings or a risk of free burning fires (chemical stores etc), or fires that need to be detected extremely quickly.

SMOKE 2

Used where optical detectors are normally fitted when there is a risk of a smouldering fire and for escape routes.

SMOKE 3

Designed for use in areas that are prone to nuisance alarms. The reduced sensitivity linked with a time delay feature, means that a higher concentration of smoke needs to be present for a constant time period, before a fire decision is made. For example, this setting is ideal for hotel bedrooms with en-suite shower rooms. The installer or service engineer can change the setting from smoke 2 to smoke 3 if nuisance alarms are a problem whilst still offering optimum protection of a smoke detection setting.

HEAT 1

Used where a standard rate of rise detector would normally be used.

HEAT 2 (Standard Fixed Temperature - 58ºC approx)

Used where a standard fixed temperature heat detector would normally be fitted, suitable for kitchens etc.

HEAT 3 (High Fixed Temperature - 90ºC approx)

Used where a high fixed temperature heat detector would normally be fitted. Suitable for commercial kitchens, boiler rooms etc.

The TWINFLEX two wire fire alarm system incorporating the Multipoint combined smoke and heat detector with built-in sounder, allows the whole system to be easily installed using only one pair of wires per zone.

Using the Multipoint detector as part of the TWINFLEX two wire fire alarm system means that when a detector is wired in, a sounder is also with no extra wiring. This greatly reduces the number of points that need to be installed and the time it takes to install. As Multipoint offers 7 different modes of detection, the installation is made even simpler since one device suits all applications. Whatever type of detection is required, it can be selected by the flick of a switch at the time of commissioning - 3 different smoke modes, 2 fixed temperature heat modes, a rate of rise mode and a combination smoke or heat mode.

As the Multipoint detector is available with or without a full specification integral 90 dBA sounder (for only a marginal cost difference) no extra devices need to be purchased when audible warning is required. (Audibility levels recommended in BS5839 Part 1:2002.) If extra sound is required, or, for areas that do not require detection, then a choice of several different stand alone sounders, call points or sounder beacon can be used on the same two wires.
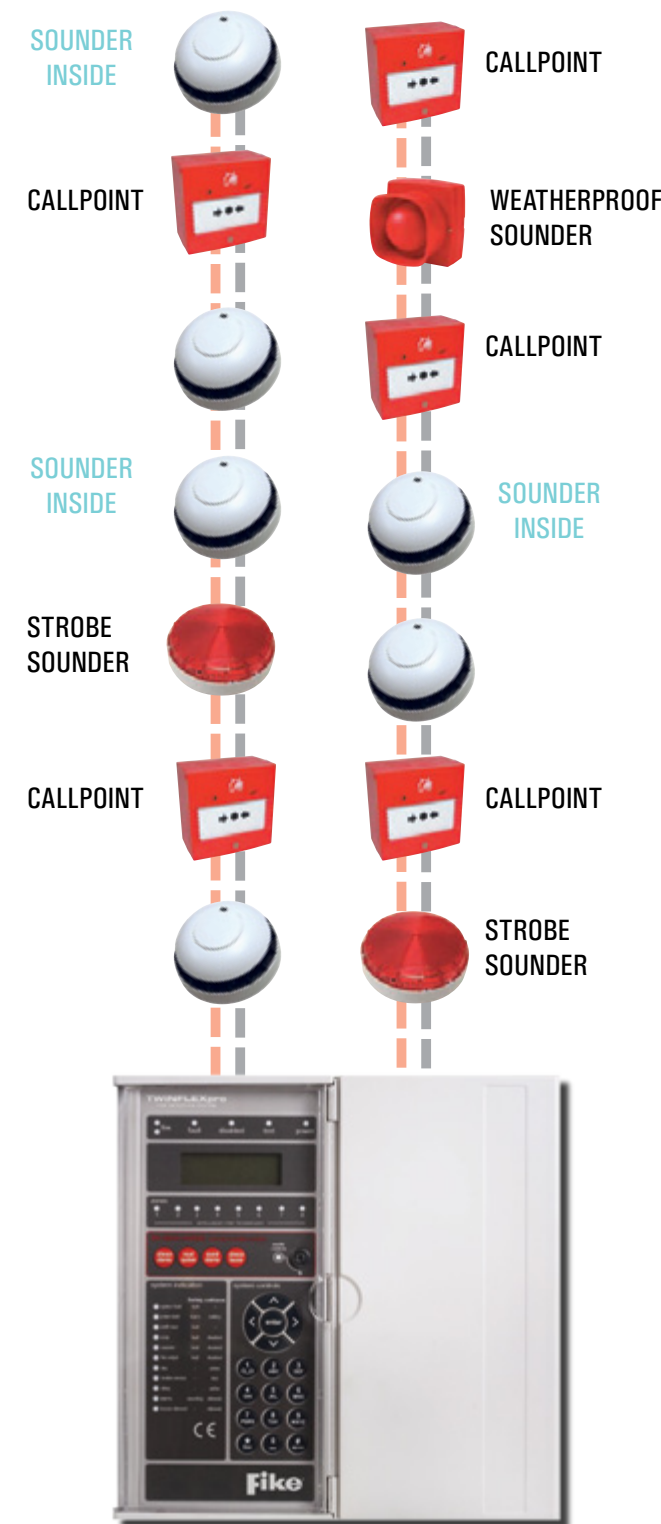
This versatile panel has the ability to differentiate between call point or detector alarm; can accommodate a maximum of 32 devices per zone; has separate fault monitoring display for each zone; and one man walk test facility and zones are configured without the need to use resistors or capacitors on unused zones. To make the TWINFLEX system even more flexible, Fike can also provide a special Output Unit. This can be situated anywhere on the zone circuit, and is ideal for connecting to plant shutdown, door release mechanisms etc.

TWINFLEX has all of these features:

- Two wire installation - only one circuit per zone to connect detectors and sounders - installation savings can be as high as 40%.
- Break glass identification. The panel has the ability to differentiate between call point or detector alarms.
- Built-in end-of-line device. All devices including detectors, break glasses and separate sounders, have a built-in end-of-line monitoring function. Simply flicking a switch within any device will enable this function. No resistors or extra circuits are required.
- 7 modes of detection.
- System fully complies to BS5839 and EN54.
- Up to 32 devices per zone.
- Easy to install.
- Available in 2, 4 & 8 zone panels.
- Up to 72 Hour standby capacity.
- Output module available for plant shutdown, door release etc.
- Savings in cable costs.
- Savings in installation costs.
- Multipoint saves the cost of a sounder.
- Warning of head contamination, before going into false alarm - panel will indicate which zone and a device LED will signal to say the optical chamber is contaminated.

SOUNDER INSIDE

CALLPOINT

CALLPOINT

WEATHERPROOF SOUNDER

CALLPOINT

SOUNDER INSIDE

SOUNDER INSIDE

STROBE SOUNDER

CALLPOINT

CALLPOINT

STROBE SOUNDER

TWINFLEX Two Wire System

Drift-compensation reduces false alarms, but this feature is not normally found in conventional or two wire systems.
The TWINFLEX detector not only has this feature as standard, but when it reaches its upper limit there is a warning on the panel and at the detector.

The TWINFLEX system also has an inbuilt prealarm facility that can be programmed through the control panel. This "Alarm Confirmation" feature can significantly reduce the effect of nuisance alarms.

Features

- Two wire installation.

- Detectors with or without built in sounders.

- Installation savings as high as 40%.

- Panel can differentiate between callpoint and detector alarms.

- Built-in end of line in every device.

- Up to 32 devices per zone.

- 7 modes of detection.

Checkpoint - Alarm Confirmation Technology

Why Checkpoint Technology?

With the increasing number of new construction, conversion of properties to flats and bed-sits, and greater pressure on environmental officers to actively enforce the requirements of BS5839 part 6, (the code of practice for fire detection and alarm systems in dwellings), organisations are continually looking for a dependable early warning fire alarm system. The ability to satisfy this ever increasing need for reliable nuisance checkpoint technology, has been incorporated into Fike's TWINFLEX control panels.

The key is the already proven, "Multipoint" multi-criteria detector technology, offering seven different selectable modes of fire detection in one device, plus a built-in 90dBA alarm sounder. Each device has a built-in end-of-line fault monitoring feature eliminating the need for separate sounders. In addition, it only requires one pair of wires to operate all devices on each zone - drastically reducing equipment requirements, installation time and cost!

What is Checkpoint Technology?

Alarm selection, the main feature of the TWINFLEX system, is the ability to set a pre-alarm in individual rooms or apartments, while still time instigating a full alarm should fire be detected in any communal area. This is made possible by a detector sounder "logical link" feature. This is the first time that this feature has been made available on a conventional type system and is beneficial where two-stage alarms are required. At the planning stage of installation, fire zones are designated as "dwelling" or "communal". Detectors in dwelling zones (e.g. apartments, hotel rooms etc.) are enabled with the "logical link" feature. This then allows the control panel to be programmed with a variable time alarm confirmation period (1-5 minutes, in one minute increments). In the event of a fire being detected in a dwelling, only the local (room) sounder will operate to alarm occupants within that particular dwelling.

The control panel will then carry out a number of checks over a specified period of time to confirm the detector is still in alarm and is a genuine fire. At the end of this checking period, if the detector ceases to signal alarm, the control panel will automatically reset the detector/sounder and the system will revert to its normal state. However, if the detector is still generating an alarm signal, the control panel will instantly sound all alarms in the building for full evacuation.

Detectors sensing fire (or call point activation in any zone) in communal areas instantly generate a full alarm throughout the building.

Eliminates the Problem of Nuisance Alarms!

The revolutionary 2 wire intelligent fire detection system – incorporating "Checkpoint" technology and the Multipoint detector

How to Use Checkpoint Technology in a TWINFLEX System Installation

Zone Planning

At the planning stage, fire zones are designated as either "Dwelling" or "Communal". Multipoint detectors in the dwelling zones have the facility to use Fike's Checkpoint Technology. The checking period can be between 1 – 5 minutes and is selected at commissioning stage upon consultation with fire officers or other authorised bodies.

Communal Zones

Communal area, e.g. hall/stairway; kitchen; lounge. When a detector alarm is activated on this type of zone, the control panel enters the fire state and the alarms are immediately activated throughout the installation.

Single Dwelling per Zone
(Zonal Confirmation Alarm)

When a detector alarm is activated on this type of zone, all sounders on the zone are activated and the control panel carries out the configured number of confirmation checks. If the detector alarm is confirmed, the control panel enters the fire state and the alarms are activated throughout the installation; if the detector alarm is rejected, the sounders on the zone are silenced, and the detector in alarm is reset.

Multiple Dwellings per Zone
(Local Confirmation Alarm)

When an alarm is detected in dwellings requiring a single detector/sounder (e.g. hostel; hall of residence; hotel rooms; bedsits), the integral sounder in the detector that generated the alarm signal is activated and then the control panel carries out the configured number of confirmation checks. If the detector alarm is confirmed, the control panel enters the fire state and the alarms are activated throughout the installation; if the detector alarm is rejected, the sounder is silenced, and the detector reset.

Communal Zone

**Single Dwelling Zone**

Multiple Dwellings per Zone
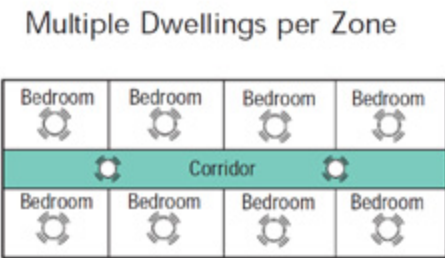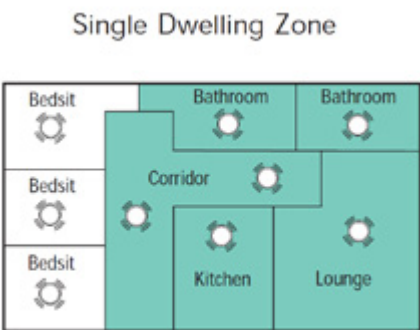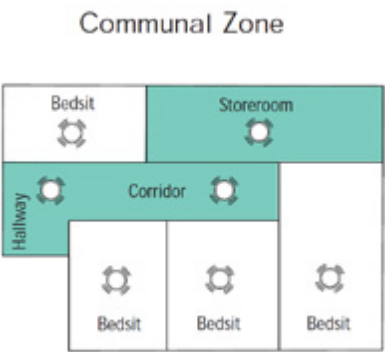
TWINFLEXpro Control Panel

The TWINFLEXpro Control Panel range offers a complete solution for your fire alarm system...all on just 2 wires

TWINFLEX control panels are available in 2, 4 or 8 zones.

- Key or code access for control of user functions.
- LCD screen with zonal identification text.
- 500 Event log.
- Break glass identification on panel to differentiate between call point or detector alarm.
- Up to 72 hour Standby.
- 2 auxiliary sounder circuits.
- "Alarm confirmation" Pre alarm facility.
- Control panel warning for head contamination-indication on panel display to signal that optical chamber is contaminated.
- Complies to BS5839 and EN54 part 4.
- Multi-function walk test facility.
- Easy to install and configure.
- A wide range of input and output functions to make system interfacing simple.
- Dual purpose flush or surface housing.
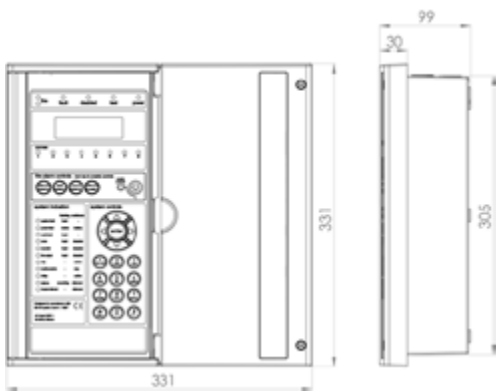
Fike P/N	Description
505 0002	TWINFLEXpro 2 Zone Control Panel
505 0004	TWINFLEXpro 4 Zone Control Panel
505 0008	TWINFLEXpro 8 Zone Control Panel 4 Zone Expansion PCB (For 505 0004 Only)

Specifications:

Dimensions:	Width x Height:	331mm x 331mm
	Depth:	99mm
Operating Temperature:		+5°C to +40°C
Mains Supply Range:		230VAC, +10%, -15%, 50/60Hz
Standby Battery Requirement:		2 x 3.3Ah 12V Sealed Lead Acid
Number of Zones:		2 / 4 / 8
Max Zone Length:		500 Metres
Zone Loading:		160 DLU (32 Devices Max)
Zone Operating	Voltage: Nominal:	29.9VDC
Max Zone Current:		250mA
LCD Display:		4 Lines of 20 Characters
Zone Labels:		12 Characters
Event Log:		500 Events
Inputs and Outputs:	Inputs:	1 x Resistance Monitored Input (3k3 EOL,680R Firing Resistor) 2 x Un-Monitored Inputs
	Fault Output:	1 x Volt Free Relay (30VDC @ 0.2A Max)
	Fire Outputs:	1 x Volt Free Relay (30VDC @ 0.2A Max) 2 x 24V Conventional Sounder/ Remote Fire Circuits (10K EOL, 250mA Max)

331q

TWINFLEX Control Panel

The original TWINFLEX Control Panel range offers a 2-wire solution for your fire alarm system.

TWINFLEX control panels are available in 2, 4 or 8 zones.

- Code access for control of user functions on 2 and 4 zone panels with key access on the 8 zone.
- Break glass identification on panel to differentiate between call point or detector alarm.
- Up to 72 hour Standby.
- 1 auxiliary sounder circuit.
- "Alarm confirmation" Pre alarm facility.
- Control panel warning for head contamination - indication on panel display to signal that optical chamber is contaminated.
- Complies to BS5839.
- Walk test facility.
- Functional repeater panels available.
- Easy to install and configure.
- A wide range of input and output functions to make system interfacing simple.
- Dual purpose flush or surface housing for 2 and 4 zone panels.

Fike P/N	Description
502 0002	TWINFLEX 2 Zone Control Panel
502 0004	TWINFLEX 4 Zone Control Panel
502 0008	TWINFLEX 8 Zone Control Panel

TWINFLEX Repeater Panel

- The TWINFLEX Repeater Panel range offers extended control for your system.
- TWINFLEX repeater panels are available in 8 or 16 zones, and system controls are accessed by key switch operation.
- The housing is common with the 2/4 zone TWINFLEX panels, giving a dual purpose flush or surface housing.
- Power is derived from the main control panel so batteries and a mains supply are not required at the repeater.
- Full functionality requires a cable with at least 7 cores plus 1 per zone between the repeater and control panels.
- Multiple TWINFLEX panels may be connected to one repeater panel for central control of multi system sites.
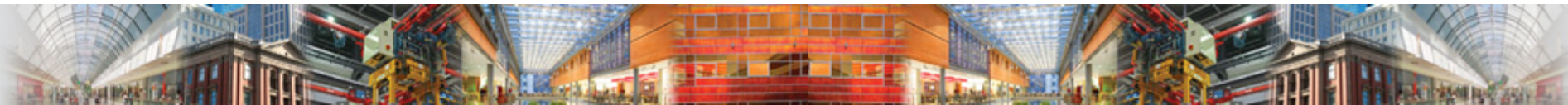
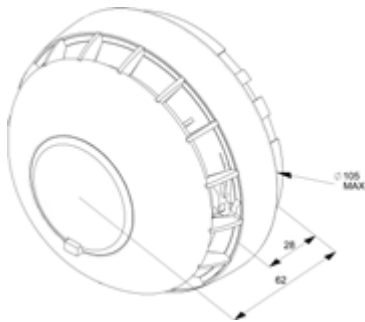| Fike P/N	Description
506 0002	TWINFLEX 8 Zone Repeater Panel
506 0001	TWINFLEX 16 Zone Repeater Panel
	Please note these repeaters are NOT suitable for the TWINFLEXpro range of control panels.

Specifications:

2 / 4 Zone Dimensions:	Width x Height:	313mm x 245mm
	Depth:	94mm
8 Zone Dimensions:	Width x Height:	316mm x 400mm
	Depth:	94mm
Operating Temperature:		+5OC to +40OC
Mains Supply Range:		230VAC, +10%, -15%, 50/60Hz
Standby Battery Requirement:	2 / 4 Zone:	2 x 2.1Ah 12V Sealed Lead Acid
	8 zone:	2 x 7Ah 12V Sealed Lead Acid
Number of Zones:		2 / 4 / 8
Max Zone Length:		500 Metres
Zone Loading:		24 SLU (32 Devices Max)
Zone Operating Voltage:	Nominal:	29.9VDC
Max Zone Current:		250mA
Inputs and Outputs:	Inputs:	1 x Un-Monitored Input
	Fault Output:	1 x Volt Free Relay (30VDC @ 0.2A Max)
	Fire Outputs:	1 x Volt Free Relay (30VDC @ 0.2A Max)
		1 x Remote Fire Circuit (10K EOL, 250mA Max)
		1 x 24V Conventional Sounder Circuit (10K EOL, 250mA Max)

Specifications:

Dimensions:	Width x Height:	313mm x 245mm
	Depth:	94mm
Operating Temperature:		+5°C to +40°C
Supply Range:		20 to 28VDC
Supply Current:	Quiescent:	10 mA
	Active:	30 mA + 10 mA per LED
Number of Zones:		8 / 16
Cable Requirement:		7 Cores + 1 Per Zone
Controls:		Evacuate, Silence, Reset

Multipoint Detector

Specifiers and installers who choose the Multipoint detector do so secure in the knowledge that the fire detection performance of the detector can be matched to the environment in which it is installed and changed at any time during the lifetime of the installation. The mode of detection required can be simply set by configuring the DIL switch in the detector electronics module.

MODES OF DETECTION

SMOKE 1
Highly thermally enhanced optical. Used where ionisation detectors are normally fitted, especially when there are high ceilings or a risk of free burning fires.

SMOKE 2
Thermally enhanced optical. Used where optical detectors are normally fitted, when there is a risk of a smouldering fire and for escape routes.

SMOKE 3 *
Thermally enhanced optical with pulse rejection. Used where optical detectors are normally used in positions exposed to brief concentrations of water vapour or smoke (e.g. from a bathroom, kettle etc.)

HEAT 1
Rate of rise to 58°C. Used where a standard rate of rise detector would normally be used.

HEAT 2
Low fixed temperature 58°C. Used where a standard fixed temperature heat detector would normally be fitted (suitable for kitchens etc.)

HEAT 3 *
High fixed temperature 90°C. Used where a high fixed temperature heat detector would normally be fitted (suitable for boiler rooms, commercial kitchens, etc.).

SMOKE 2 / HEAT 2
A combination mode of SMOKE 2 & HEAT 2 will trigger with either a smoke or heat source.

* Designed to comply with EN54.

Fike P/N	Description
202 0003	TWINFLEX Multipoint Detector
202 0001	TWINFLEX Multipoint Detector with Sounder

Specifications:

Dimensions:	Diameter:	105mm
	Depth: Standard inc base	62mm
Operating Temperature:		-10°C to +50°C.
Voltage Range:		20 to 35V DC
LED Indication:	Normal:	20s interval
	Normal:	EOL 5s interval
	Fault:	1.5s interval
	Fire:	Confirmed Constant
Sounder Volume:	Normal:	65dB+
	High:	90dB+
System Compatibility:	TWINFLEX:	V2 onwards
	TWINFLEXpro:	V1 onwards
Zone Current @ 24VDC:	Quiescent:	0.114mA
	Activated:	48.5mA
	Low Sounder:	3.5mA
	High Sounder:	8mA
SLU / DLU Rating:	No Sounder:	0.5 SLU / 1.5 DLU
	Low Sounder:	1 SLU / 3.5 DLU
	High Sounder:	1.5 SLU / 8 DLU

331g/01, 331p/01

Manual Call Point & Weatherproof MCP

All Fike's manual call points are designed to comply with the latest European standards: EN54 part 11 and provide all of the following features.

- With the resettable element the need for replacement glass is negated as the unit may be reset using the key provided.
- The test key is inserted into the front of the unit in order to allow access wherever it is sited. The user can test the call point with the test key or by depressing the element.
- Every **TWINFLEX** call point comes with an LED for indication of End of Line and Alarm.
- There is no need to remove the front cover and the glass at installation; just one screw connects the whole unit.
- The back box can be fitted at the time of installation with other first fix items. The call point unit can simply be installed in later.
- An adaptor plate is also supplied, for use with standard flush or surface back boxes. The manual call point is connected to the back box using simple flying lead terminations.

Fike P/N	Description
402 0006	TWINFLEX Manual Call Point

Specifications:

Dimensions:	Width x Height:	88mm x 88mm
	Depth: Standard inc base	52mm
	Depth: Flush mounted	25mm
Operating Temperature:	-	10°C to +50°C
Voltage Range:		20 to 35V DC
LED Indication:	Activated:	0.5 Second Interval
	End Of Line:	5 Second Interval
System Compatibility:	TWINFLEX:	V1 onward
	TWINFLEXpro:	V1 onwards
Zone Current @ 24VDC:	Quiescent:	50uA
	Active:	16mA
SLU / DLU Rating:		3 SLU / 16 DLU

331d/03

Fike P/N	Description
402 0007	TWINFLEX Weatherproof Manual Call Point

Specifications:

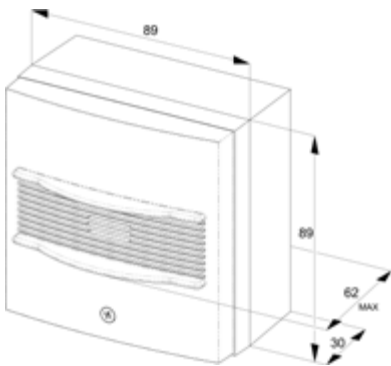|		
Dimensions:	Width x Height:	89mm x 89mm
	Depth: Standard inc base	71mm
Operating temperature:		-10°C to +50°C
Voltage Range:		20 to 35V DC
IP Rating:		65
LED Indication:	Activated:	0.5 Second Interval
	End Of Line:	5 Second Interval
System Compatibility:	TWINFLEX:	V1 onward
	TWINFLEXpro:	V1 onwards
Zone Current @ 24VDC:	Quiescent:	50uA
	Active:	16mA
SLU / DLU Rating:		3 SLU / 16 DLU

331d/04

Soundpoint Sounder

- The TWINFLEX Soundpoint is designed to comply with the European standard EN54 part 3.
- The back box can be fitted at the time of installation with other first fix items - the Soundpoint unit can simply be installed later.
- An adaptor plate is also supplied, for use with standard flush or surface back boxes.
- The device is connected to the back box using simple flying-lead terminations.
- The TWINFLEX Sound Point is ideal for areas that do not require automatic detection, and is available in a choice of 2 colours (red or white).

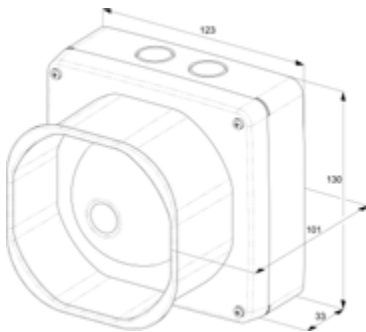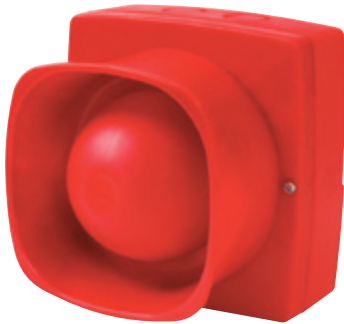| Fike P/N	Description
313 0021	TWINFLEX Soundpoint - Red
313 0022	TWINFLEX Soundpoint - White

Hipoint Sounder

This sounder offers an industrial style sounder with high sound output and IP55 rating making it suitable for external applications.

It has been designed to comply with the European standard EN54 part 3.

The TWINFLEX Hipoint has been designed with the industrial market in mind. A horn gives a high sound output and a narrow angle of projection for the more demanding industrial applications.

- The surface back box may be fitted at the time of installation with other first fix items and the Hipoint unit can simply be installed later.
- The TWINFLEX Hi Point is ideal for areas that do not require automatic detection but require a high sound level.

Fike P/N	Description
302 0004	TWINFLEX Weatherproof HiPoint (IP55)

Specifications:

Dimensions:	Width x Height:	89mm x 89mm
	Depth: Standard inc base	62mm
	Depth: Flush mounted	34mm
Operating Temperature:		-10°C to +50°C
Voltage Range:		20 to 35V DC
System Compatibility:	TWINFLEX:	V2 onwards
	TWINFLEXpro:	V1 onwards
Sounder Volume:	Normal:	65dB+
	High:	85dB+
Zone Current @ 24VDC:	Quiescent:	0.185mA
	Active: Low Sounder	12.619mA
	Active: High Sounder	14.5mA
SLU / DLU Rating:	Low Sounder:	2 SLU / 13 DLU
	High Sounder:	2.5 SLU / 14.5 DLU

331h/05

Specifications:

Dimensions:	Width x Height	123mm x 139mm
	Depth:	101mm
Operating Temperature:		-10°C to +50°C.
Voltage Range:		20 to 35V DC
LED Indication:	Normal:	20s interval
	Normal:	EOL 5s interval
	Fault:	1.5s interval
	Fire:	Confirmed Constant
Sounder Volume:	Normal:	65dB+
	High:	90dB+
System Compatibility:	TWINFLEX:	V2 onwards
	TWINFLEXpro:	V1 onwards
Zone Current @ 24VDC:	Quiescent:	0.114mA
	Activated:	48.5mA
	Low Sounder:	3.5mA
	High Sounder:	8mA
SLU / DLU Rating:	No Sounder:	0.5 SLU / 1.5 DLU
	Low Sounder:	1 SLU / 3.5 DLU
	High Sounder:	1.5 SLU / 8 DLU
IP Rating:		IP55

331h/04
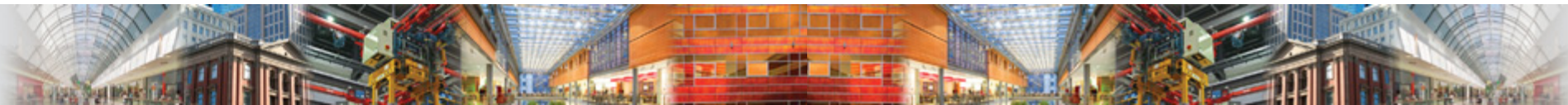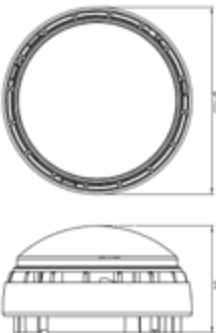
Flashpoint Sounder/Strobe

The TWINFLEX Flashpoint allows a simple and effective visual indication directly from the 2-wire zone, complete with a sounder. Whilst in alarm the Flashpoint synchronisation is uniquely reset every 10 seconds to ensure that the beacon's flash rate remains in absolute synchronicity across the entire system.

- It has been designed to comply with the European standard EN54 part 3.
- This zone powered combined sounder and beacon is available in a low profile or domed version, and can be manufactured in alternative colours if required.
- Installation is made simple by first fixing the base and then simply plugging in the unit.
- The Fashpoint features an anti-tamper mechanism to ensure that the device is only released with the use of the Multipoint head removal tool.
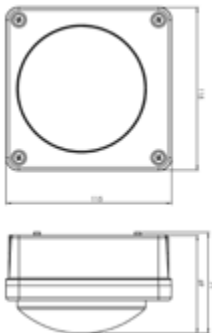
Weatherproof Flashpoint

The TWINFLEX Weatherproof Flashpoint allows a simple and effective visual indication directly from the 2-wire zone. Whilst in alarm the flashpoint synchronisation is uniquely reset every 10 seconds to ensure that the beacon's flash rate remains in absolute synchronicity across the entire system.

The back box can be fitted at the time of installation with other first fix items. The FlashPoint unit can simply be installed in later.

The FlashPoint is connected to the back-box using simple flying-lead terminations.

The weatherproof FlashPoint comes with an adaptable back box for surface installation and is suitable for external applications.

Fike P/N	Description
302 0012	TWINFLEX Flashpoint - Low Profile
302 0022	TWINFLEX Flashpoint - Domed

Fike P/N	Description
302 0023	TWINFLEX Weatherproof Flashpoint

Specifications:

Dimensions:	Diameter:	105mm
	Depth: Low Profile	45mm
	Depth: Domed	62mm
Operating Temperature:		-10°C to +50°C
Voltage Range:		20 to 35v DC
System Compatibility:	TWINFLEX:	V2 onwards
	TWINFLEXpro:	V1 onwards
Sounder Volume:	Normal:	65dB+
	High:	90dB+
Strobe Operation:		1 Sec Off / 15 mS On
Zone Current @ 24VDC:	Quiescent:	0.223mA
	Active: Low Sounder	15.00A
	Active: High Sounder	23.515mA
	Active: Strobe only	5.52mA
SLU / DLU Rating:	Low Sounder:	2.5 SLU / 15 DLU
	High Sounder:	4 SLU / 24 DLU
	Strobe only:	1 SLU / 5.5 DLU

Specifications:

Dimensions:	Width x Height	115mm x 115mm
	Depth:	71mm
Operating Temperature:		-10°C to +50°C
Voltage Range:		20 to 35v DC
System Compatibility:	TWINFLEX:	V2 onwards
	TWINFLEXpro:	V1 onwards
Strobe Operation:		1 Sec Off / 15 mS On
Zone Current @ 24VDC:	Quiescent:	0.223mA
	Strobe Active	5.52mA
SLU / DLU Rating:		1 SLU / 5.5 DLU

331h/02, 331h/03
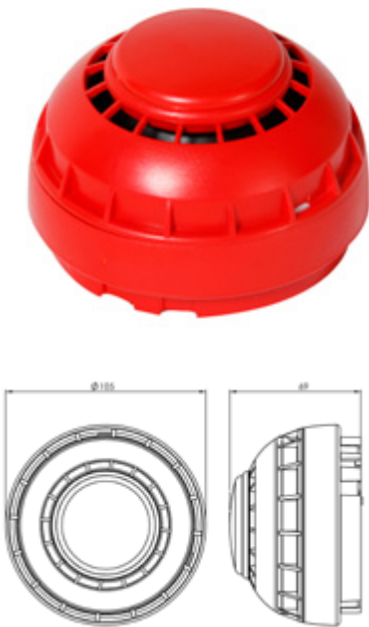
Hatari Sounder

TWINFLEX Hatari sounders is for higher sound output requirements. The stand alone Hatari sounder can be utilised where extra sound output on the zone is a requirement, or for areas that do not require automatic detection technology.

- The TWINFLEX Hatari is designed to comply with the European standard EN54 part 3.
- The field wiring is terminated to fixed connectors in the base, and a "deep base" is available as a separate item, if required.
- A bayonet locking mechanism makes the sounder easy to install, and the anti-tamper feature ensures that the Hatari is only released with the use of the head removal tool.
- The TWINFLEX Hatari is available in Red or White to suit any preference and offers variable sound output adjustment.

Fike P/N	Description
302 0001	TWINFLEX Hatari Sounder - Red
302 0002	TWINFLEX Hatari Sounder - White

I/O Module

The TWINFLEX I/O Module is available for interfacing to other systems in the field. This module is ideal for operating plant shutdown, door release mechanisms and access control override due to its wide range of switching configurations.

- The I/O Module connects to the zone wiring and provides a 230v AC rated DPCO relay contact, a low voltage SPCO contact for switching purposes and a single input for monitoring purposes.
- The unit may be programmed as required for a wide variety of input and output applications via the on board DIL switches.
- The input provided is fully fault monitored using a 3k3 end of line resistor; and activation is signalled with a 680R firing resistor, making this ideal for interfacing beam detectors and other ancillary devices.
- The module is available mounted in an industry standard double gang housing for ease of installation in either flush or surface mounting.

Fike P/N	Description
802 0006	TWINFLEX Input / Output Unit

Specifications:

Dimensions:	Diameter:	103mm
	Depth:	62mm
Operating Temperature:		-10°C to +50°C
Voltage Range:		20 to 35v DC
System Compatibility:	TWINFLEX:	V2 onwards
	TWINFLEXpro:	V1 onwards
Sounder Volume:		90dB+
Zone Current @ 24VDC:	Quiescent:	0.092 mA
	Active:	10.056 mA
SLU / DLU Rating:		6 SLU / 36 DLU

Specifications:

Dimensions:	Overall:	146mm x 87mm x 41mm
	Back box:	146mm x 87mm x 32mm
Operating Temperature:		-10°C to +50°C
Voltage Range:		20 to 35v DC
LED Indication:	Output Activated:	LED on
Contact Rating:	Relay 1:	Max load 230V AC 3A (DPCO)
	Relay 3:	Max load 30V DC 0.5A (SPCO)
Fuses:	Fuse 1 + 2:	3.15A Antisurge 20mm Ceramic (eg. Bussman S505-3.15A)
System Compatibility:	Twinflex:	V2 onwards
	TwinflexPro:	V1 onwards
Zone Current @ 24vdc:	Quiescent:	0.29mA
	Active:	22.72mA
SLU / DLU Rating:		4 SLU / 23 DLU

331h/01

Pending

Utilising innovative and market leading designs, Fike has developed a line of intelligent fire alarm systems, which are both cost-effective and reliable solutions for a wide variety of fire detection applications.

The innovative technology built into the Duonet and Qudanet panels is designed to significantly reduce false alarms. The systems can support Up to 200 Multipoint or ASD combined detector/sounders on a single loop and each one not only provides detection, but also a built-in sounder.

Integrity of the system is maintained by way of a built-in isolator incorporated within every device. System intelligence has been harnessed in such a way that equipment used is very easy to install, commission and maintain.

The system has been designed to high specification and quality standards, and is intended to fully comply with the new EN54 – 2 and EN54 – 4 standards and EU directives.

Fike's Addressable Loop Technology Offers all of these Features:
- Soft addressing.
- Distributed intelligence.
- Fast short circuit isolator in every device.
- 15 combinations of smoke & heat detection modes.
- Loop length up to 2km long.
- Digital communication with high power transfer.
- Multi stage alarms – pre alarm feature.
- Very low current consumption.
- 7 sound patterns – and 3 volume settings.
- Auxiliary digital inputs and outputs are available at any addressable Multipoint or ASD device.
- Automatic continuous self calibration.
- Addressable Multipoint and ASD detectors are monitored for all failures of sensor chamber – warning is indicated.

DUONET
QUADNET

Addressable Intelligent Detector System

Up to 200 devices on a single loop

Powerful software gives the capacity of up to 4 loops for the Quadnet and 2 loops for the Duonet panel , making addressable Multipoint and ASD detector technology available to customers with systems with up to 800 devices.

Quadnet and Duonet have been designed using significant customer feedback, to produce a high specification system with many unique features. Its appeal will attract consultants, clients, installers and engineers alike.

The standard black hi-gloss finish of the panels has been chosen to reflect the panel's state of the art technology to enhance its surroundings, rather than be hidden away.

Commissioning software, the panel menu and key pad layout are installer friendly, along with ease of access for cable entry and terminations, making Quadnet and Duonet panels a popular choice for engineers and the end user alike.

Features:
- 1 to 2 Loop Duonet.
- (Supplied as 1 loop, which is expanded using plug-in loop cards if required)
- 1 to 4 Loop Quadnet.
  (Supplied as 1 loop, which is expanded using plug-in loop cards if required)
- Loop length up to 2km fully loaded.
- Loop capacity up to 200 devices with built in sounder.
- 128 available zones per panel.
- On board printer available.
- Proven protocol devices with full range available.
- Large display to aid event identification.
- Advanced commissioning software.
- Network up to 8 panels or repeaters.
- Up to 1 km length between networked panels or repeaters.

Duonet Fire Detection System

The Duonet 1 to 2 loop panel has a maximum loop length of 2km fully loaded and each loop has a maximum capacity of 200 devices.

The Duonet panel utilises Fike's "soft addressing" and "distributed intelligence" technologies and can be configured via the on board keypad or a PC software package (OSP). The system itself operates on a basis where signal processing and "fire decisions" are made within the local device.

Activity of devices is displayed individually on the panels large LCD display. The panel provides a set of monitored inputs and outputs that can be configured to perform a range of functions. The network connection on the Duonet panel enables up to 8 repeater or networked panels to be connected.

The system may be configured to utilise up to 3 alarm stages with full 'Cause & Effect' programming across all 128 zones and the option of 7 different sound patterns. Point to Point cause and effect is also available.

- 1-2 Loops.
- Digital communication with high power transfer.
- Alarm confirmation as standard.
- Advanced PC configuration tools.
- Very low current consumption.
- 128 zonal displays for fire.
- 1000 event history buffer
- Integral power supply with intelligent battery management.
- Functional Network with ability to connect up to 8 repeater or network panels.
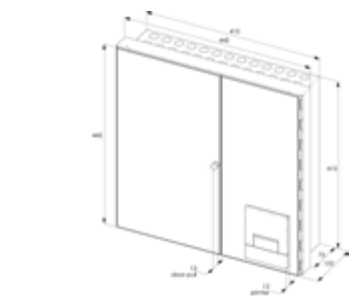
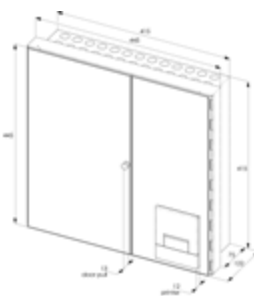| Fike P/N	Description
510 0001	Duonet Control Panel (With 1 Loop Card)
510-0003	Duonet Control Panel (With 1 Loop Card) inc Printer
507 0030	Loop Card
507 0015	Network Card

Duonet Repeater Panel

The Duonet Repeater panel provides additional indication and control for your system.

The Duonet repeater panel sits on the Duonet network and utilises a 2 core screened fire cable ring for data transmission, and will operate up to 8 repeater / control panels.

The panel gives full text and common Fire LED indication of events taking place, and provides system controls for Alarms On/Off, Evacuate, Mute Buzzer and Reset System.

The repeater panel housing is similar to the main control panel, allowing flush or surface mounting, complete with integral PSU and battery compartment.

Fike P/N	Description
510 0002	Duonet Repeater Panel with Network Card

Specifications:

Dimensions:	Width x Height:	445mm x 445mm
	Depth:	122mm
Operating Temperature:		+5°C to +40°C
Mains Supply Range:		230V AC, +10% - 15%, 50/60Hz
Standby Battery Requirement:		2 x 7Ah 12v Sealed Lead Acid
Max Number of Loops:		2
Max Loop Length:		2000 Metres
Max Conductor Resistance:		24 Ohms
Loop Loading:		450 DLU (200 Devices Max) per loop
Loop Operating Voltage:	Normal:	40V DC
	Standby:	24V DC
Max Loop Current:		500mA
Number of Supported Zones:		128
LCD Display:		LCD Graphical Display
Device Labels:		31 Characters
Event Log:		1000 Events
Network / Repeater Panels:		8 Max
Inputs and Outputs:	Inputs:	2 x Resistance Monitored Inputs (3k3 EOL, 680R Firing Resistor)
	Outputs:	2 x Volt Free Relay (30V DC @ 1A Max);
		2 x Monitored Outputs (24V DC @ 200mA)
		2 x 24V Conventional Sounder Circuits (10k EOL, 200mA Max)

LPCB

UKAS

331q

Specifications:

|		
Dimensions:	Width x Height:	445mm x 445mm
	Depth:	122mm
Operating Temperature:		+5°C to +40°C
Mains Supply Range:		230V AC, +10% - 15%, 50/60Hz
Standby Battery Requirement:		2 x 7Ah 12v Sealed Lead Acid
LCD Display:		LCD Graphical Display
Device Labels:		31 Characters
Event Log:		1000 Events
Network / Repeater Panels:		8 Max
Outputs:		1 x Volt Free Fault Relay (30V DC @ 1A Max);

Quadnet Fire Detection System

The Quadnet 1 to 4 loop panel has a maximum loop length of 2km fully loaded and each loop has a maximum capacity of 200 devices.

The Quadnet panel utilises Fike's "soft addressing" and "distributed intelligence" technologies and can be configured via the on board keypad or a PC software package (OSP). The system itself operates on a basis where signal processing and "fire decisions" are made within the local device. Activity of devices is displayed individually on the panels large LCD display.

The panel provides a set of monitored inputs and outputs that can be configured to perform a range of functions. The network connection on the Quadnet panel enables up to 8 repeater or networked panels to be connected.

The system may be configured to utilise up to 3 alarm stages with full 'Cause & Effect' programming across all 128 zones and the option of 7 different sound patterns. Point to Point cause and effect is also available.

- 1-4 Loops.
- Digital communication with high power transfer.
- Alarm confirmation as standard.
- Advanced PC configuration tools.
- Very low current consumption.
- 128 zonal displays for fire.
- 1000 event history buffer.
- Integral power supply with intelligent battery management.
- Functional Network with ability to connect up to 8 repeater or network panels.
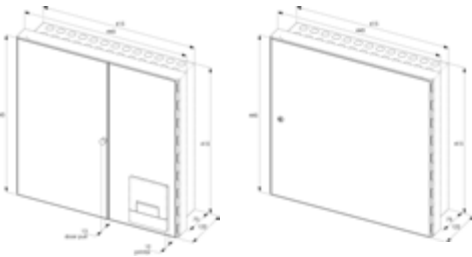
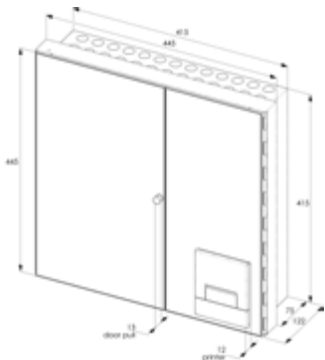| Fike P/N	Description
507 0001	Quadnet Control Panel (With 1 Loop Card)
507 0009	Quadnet Control Panel (With 1 Loop Card) inc Printer
507 0030	Loop Card
507 0015	Network Card

Quadnet Repeater Panel

The Quadnet Repeater panel provides additional indication and control for your system.

The Quadnet repeater panel sits on the Quadnet network and utilises a 2 core screened fire cable ring for data transmission, and will operate up to 8 repeater / control panels.

The panel gives full text and common Fire LED indication of events taking place, and provides system controls for Alarms On/Off, Evacuate, Mute Buzzer and Reset System.

The repeater panel housing is similar to the main control panel, allowing flush or surface mounting, complete with integral PSU and battery compartment.

Fike P/N	Description
507 0002	Quadnet Repeater Panel with Network Card

Specifications:

Dimensions (Panel and PSU):	Width x Height:	445mm x 445mm
	Depth:	122mm
Operating Temperature:		+5°C to +40°C
Mains Supply Range:		230V AC, +10% - 15%, 50/60Hz
Standby Battery Requirement:		2 x 17Ah 12v Sealed Lead Acid
Max Number of Loops:		4
Max Loop Length:		2000 Metres
Max Conductor Resistance:		24 Ohms
Loop Loading:		450 DLU (200 Devices Max) per loop
Loop Operating Voltage:	Normal:	40V DC
	Standby:	24V DC
Max Loop Current:		500mA
Number of Supported Zones:		128
LCD Display:		LCD Graphical Display
Device Labels:		31 Characters
Event Log:		1000 Events
Network / Repeater Panels:		8 Max
Inputs and Outputs:	Inputs:	2 x Resistance Monitored Inputs (3k3 EOL, 680R Firing Resistor)
	Outputs:	2 x Volt Free Relay (30V DC @ 1A Max);
		2 x Monitored Outputs (24V DC @ 200mA)
		2 x 24V Conventional Sounder Circuits (10k EOL, 200mA Max)

331q

Specifications:

Dimensions:	Width x Height:	445mm x 445mm
	Depth:	122mm
Operating Temperature:		+5°C to +40°C
Mains Supply Range:		230V AC, +10% - 15%, 50/60Hz
Standby Battery Requirement:		2 x 7Ah 12v Sealed Lead Acid
LCD Display:		LCD Graphical Display
Device Labels:		31 Characters
Event Log:		1000 Events
Network / Repeater Panels:		8 Max
Outputs:		1 x Volt Free Fault Relay (30V DC @ 1A Max)

Addressable ASD Detector

The ASD fire detector can be matched to the environment in which it is installed and changed at any time during the lifetime of the installation. The option of integral or integral sounder and strobe are also key features of the ASD detector. The mode of detection required can be set simply by configuring the detector settings at the control panel.

MODES OF DETECTION

SMOKE 1
Highly thermally enhanced optical. Used where ionisation detectors are normally fitted, especially when there are high ceilings or a risk of free burning fires.

SMOKE 1
Highly thermally enhanced optical. Used where ionisation detectors are normally fitted, especially when there are high ceilings or a risk of free burning fires.

SMOKE 2
Thermally enhanced optical. Used where optical detectors are normally fitted, when there is a risk of a smouldering fire and for escape routes.

SMOKE 3 *
Thermally enhanced optical with pulse Rejection. Used where optical detectors are normally used in positions exposed to brief concentrations of water vapour or smoke (e.g. from a bathroom, kettle etc.).

HEAT 1
Rate of rise to 58°C. Used where a standard rate of rise detector would normally be used.

HEAT 2
Low fixed temperature 58°C. Used where a standard fixed temperature heat detector would normally be fitted, suitable for kitchens etc.

HEAT 3 *
High fixed temperature 90°C. Used where a high fixed temperature heat detector would normally be fitted, suitable for boiler rooms, commercial kitchens, etc.

COMBINATIONS
Any combination of smoke and heat modes may be selected, and differing alarm responses selected for each mode. If the Multipoint with integral sounder is required, then it too can be set to a choice of 7 different sound patterns.

Fike P/N	Description
205 0003	Addressable ASD Detector
205 0001	Addressable ASD Detector with Sounder
205 0012	Addressable ASD Detector with Sounder and Strobe
905 0001	905 0001 Addressable ASD Detector Base (Pack of 5)

* Designed to comply with EN54.

Addressable Multipoint Detector

The multipoint detector can be matched to the environment in which it is installed and changed at any time during the lifetime of the installation. The mode of detection required can be simply set by configuring the detector settings at the control panel.

MODES OF DETECTION

SMOKE 1
Highly thermally enhanced optical. Used where ionisation detectors are normally fitted, especially when there are high ceilings or a risk of free burning fires
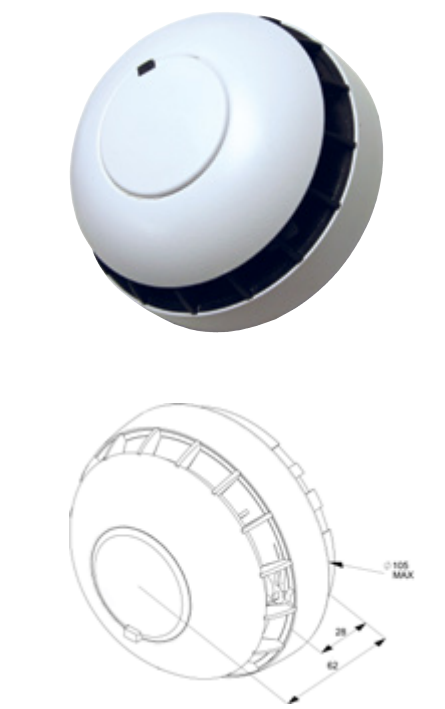
SMOKE 2
Thermally enhanced optical. Used where optical detectors are normally fitted, when there is a risk of a smouldering fire and for escape routes.

SMOKE 3
Thermally enhanced optical with pulse rejection. Used where optical detectors are normally used in positions exposed to brief concentrations of water vapour or smoke (e.g. from a bathroom, kettle etc.).

HEAT 1
Rate of rise to 58°C. Used where a standard rate of rise detector would normally be used.

HEAT 2
Low fixed temperature 58°C. Used where a standard fixed temperature heat detector would normally be fitted, suitable for kitchens etc.

HEAT 3
High fixed temperature 90°C. Used where a high fixed temperature heat detector would normally be fitted, suitable for boiler rooms, commercial kitchens, etc.

COMBINATIONS
Any combination of smoke and heat modes may be selected, and differing alarm responses selected for each mode. If the Multipoint with integral sounder is required, then it too can be set to a choice of 7 different sound patterns.

Fike P/N	Description
203 0003	Addressable Multipoint Detector
203 0001	Addressable Multipoint Detector with Sounder
903 0001	Addressable Multipoint Detector Base (Pack of 5)

Specifications:

Dimensions:	Diameter:	107mm
	Depth - Standard inc base:	67mm
	Strobe inc base:	75mm
Operating Temperature:		-10°C to +50°C.
Voltage Range:		24V to 42V DC
System Compatibility:	SITA200plus:	V2.30 onwards
	Duonet and Quadnet:	V1 onwards
LED Indication:	Normal:	50ms on / 20ms interval
	Fault:	0.1ms on / 5s interval
	Fire:	50ms on / 400ms interval
Sounder Volume:	Low:	65dB(A)+
	Medium:	80dB(A)+
	High:	85dB(A)
Strobe Operation:		5ms on / 1s interval
Loop Current @ 24V DC / DLU Rating:	Quiescent: 0.12mA	
	Active: No Sounder	2.07mA (8.32mA with strobe) / 1 DLU (4.5 with strobe)
	Active: Low Sounder	3.09mA (9.34mA with strobe) / 1.5 DLU (5 with strobe)
	Active: Med Sounder	8.39mA (14.64mA with strobe) / 4.5 DLU (8 with strobe)
	Active: High Sounder	12.17mA (18.42mA with strobe) / 6 DLU (10 with strobe)

331h/01, 331f/01, 331f/02

Specifications:

Dimensions:	Diameter:	105mm
	Depth - Standard inc base:	62mm
Operating Temperature:		-10°C to +50°C.
Voltage Range:		24V to 42V DC
System Compatibility:	SITA200plus:	V2.30 onwards
	Duonet and Quadnet:	V1 onwards
LED Indication:	Normal:	50ms on / 20ms interval
	Fault:	0.1ms on / 5s interval
	Fire:	50ms on / 400ms interval
Sounder Volume:	Low:	65dB(A)+
	Medium:	83dB(A)
	High:	88dB(A)
Loop Current @ 24V DC / DLU Rating:	Quiescent:	0.12mA
	Active: No Sounder	2.07mA / 1 DLU
	Active: Low Sounder	3.09mA / 1.5 DLU
	Active: Med Sounder	8.39mA / 4.5 DLU

ASD & Multipoint I/O Interface

The Addressable Multipoint & ASD I/O Interface Module allows convenient use of the detectors inbuilt input or output function.

The I/O Interface unit may be connected to the Multipoint or ASD detector base in order to provide an input or an output from the addressable circuit.

The unit may be programmed as required for a wide variety of applications, including the ability to follow an individual device set for 'Alarm Confirmation'.

The module provides Fault Input monitoring to allow fault indication from relevant ancillary equipment, even when set to its relay / output mode. It is ideal for operating plant shutdown, door release mechanisms, access control override, etc.

The module is available mounted in an industry standard single gang housing for ease of installation for either flush or surface mounting.

Fike P/N	Description
803 0005	Addressable Multipoint and ASD IO Interface

Specifications:

Dimensions:	Width x Height:	87mm x 87mm
	Depth:	42mm
Operating Temperature:		-10°C to +50°C
Voltage Range:		24V to 42V DC
LED Indication:	Output Activated:	LED on
Contact Rating:	Relay:	Max load 30V DC 0.5A (SPCO)
		Note: not suitable for mains use
System Compatibility:	SITA200plus:	V2.30 onwards
	Duonet and Quadnet:	V1 onwards
Loop Current @ 24V DC:	Quiescent:	0.03mA
	Active:	6.39mA
Device Loading Unit Rating:		3

Addressable Manual Call Point & Weatherproof MCP

All Fike's manual call points are designed to comply with the latest European standards: EN54 part 11 and provide all of the following features.

- With the resettable element the need for replacement glass is negated as the unit may be reset using the key provided.
- The test key is inserted into the front of the unit in order to allow access wherever it may be is sited. The user can test the call point with the test key or by depressing the element.
- Every Addressable call point comes with an LED for indication of Alarm.
- There is no need to remove the front cover and the glass at installation; just one screw attaches the unit together.
- The back box can be fitted at the time of installation with other first fix items the call point unit can be installed in later.
- An adaptor plate is also supplied, for use with standard flush or surface back boxes. The manual call point is connected to the back box using simple flying lead terminations.
- Short circuit isolation is also included within each addressable call point removing the requirement for separate isolators to be fitted.

Specifications:

Dimensions:	Width x Height:	88mm x 88mm
	Depth: Standard inc base:	52mm
Flush mounted :		25mm
Operating Temperature:		10°C to +50°C.
Voltage Range:		24V to 42V DC
LED Indication:	Activated:	0.3 Second Interval
System Compatibility:	SITA200plus:	V2.00 onwards
	Duonet and Quadnet:	V1 onwards
Loop Current @ 24V DC:	Quiescent:	0.18mA
	Active:	5.96mA
Device Loading Unit Rating:		3

Fike P/N	Description
403 0006	Addressable Manual Call Point

331e/01

Specifications:

Dimensions:	Width x Height:	89mm x 89mm
	Depth: Standard inc base	71mm
Operating temperature:		-10°C to +50°C
Voltage Range:		20 to 35V DC
IP Rating:		65
LED Indication:	Activated:	0.3 Second Interval
System Compatibility:	SITA200plus:	V2.00 onwards
	Duonet and Quadnet:	V1 onwards
Loop Current @ 24V DC:	Quiescent:	0.18mA
	Active:	5.96mA
Device Loading Unit Rating:		3

Fike P/N	Description
403 0007	Addressable Weatherproof Manual Call Point

331e/02

Soundpoint Sounder

The Addressable Soundpoint is a compact unit that has the option of being flushed in if required, and is designed to comply with the European standard EN54 part 3.

- The back box can be fitted at the time of installation with other first fix items. The Soundpoint unit can simply be installed later.
- An adaptor plate is also supplied, for use with standard flush or surface back boxes.
- The device is connected to the back box using simple flying-lead terminations.
- The Soundpoint offers the choice of 7 different sound patterns and 3 volume levels.
- The addressable Soundpoint is ideal for areas that do not require automatic detection.
- Available in a choice of 2 colours, red or white.

Fike P/N	Description
313 0001	Addressable Soundpoint - Red
313 0002	Addressable Soundpoint - White

Hipoint Sounder

The Addressable Hipoint offers an industrial style sounder with high sound output and IP55 rating, making it suitable for external applications. It has been designed to comply with the European standard EN54 part 3.

- A horn gives a high sound output and a narrow angle of projection for the more demanding industrial applications.
- The surface back box may be fitted at the time of installation with other first fix items and the Hipoint unit can simply be fitted later.
- The Hi Point is ideal for areas that do not require automatic detection but require a high sound level and they also offer the choice of 7 different sound patterns.
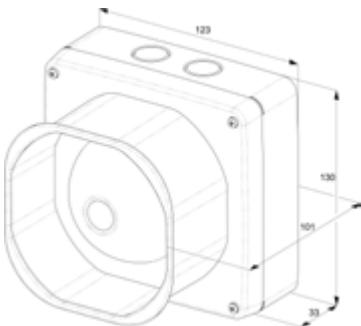
Fike P/N	Description
323 0001	Addressable Weatherproof HiPoint (IP55)

Specifications:

Dimensions:	Width x Height:	89mm x 89mm
Depth:	Standard inc base:	62mm
	Flush mounted:	34mm
Operating Temperature:		-10°C to +50°C.
Voltage Range:		24V to 42V DC
Sounder Volume:	Low:	65dB(A)+
	Medium:	80dB(A)+
	High:	85dB(A)
System Compatibility:	SITA200plus:	V2.30 onwards
	Duonet and Quadnet:	V1 onwards
Loop Current @ 24V DC / DLU Rating:	Quiescent:	0.18mA
	Active: Low Sounder	3.62mA / 2 DLU
	Active: Med Sounder	8.05mA / 4 DLU
	Active: High Sounder 1	1.22mA / 5.5 DLU

Specifications:

Dimensions:	Width x Height:	123mm x 130mm
Depth:	Standard inc base:	101mm
Operating Temperature:		-10°C to +50°C.
Voltage Range:		24V to 42V DC
Sounder Volume:	Low:	65dB(A)+
	Medium:	80dB(A)+
	High:	85dB(A)
IP Rating:		IP55
System Compatibility:	SITA200plus:	V2.30 onwards
	Duonet and Quadnet:	V1 onwards
Loop Current @ 24V DC / DLU Rating:	Quiescent:	0.18mA
	Active: Low Sounder	3.59mA / 2 DLU
	Active: Med Sounder	7.99mA / 4 DLU
	Active: High Sounder	11.16mA / 5 DLU

331j/06

331j/05

Sounder/Strobe

The addressable Sounder Strobe allows a simple and effective visual indication directly from the addressable loop.

Whilst in alarm the Sounder Strobe synchronisation is uniquely reset every 10 seconds to ensure that the beacon's flash rate remains in absolute synchronicity across the entire system.
The Sounder Strobe offers the choice of 7 different sound patterns and 3 volume levels.

The addressable Sounder Strobe is ideal for areas that do not require automatic detection, and is available in a choice of 2 colours, red or white.

Audible and Visual warning is available in this compact unit that is easy to install.

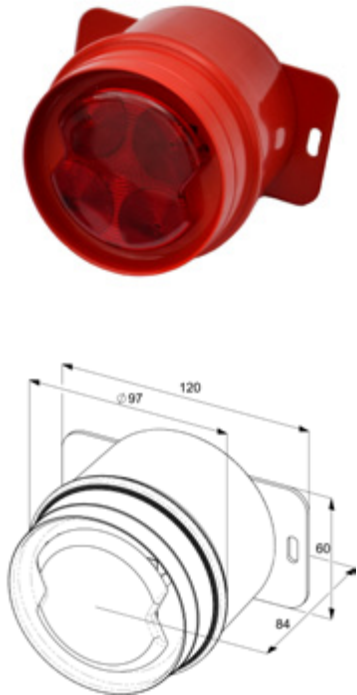| Fike P/N	Description
326 0001	Addressable Sounder - Shallow Base - Red
326 0003	Addressable Sounder - Deep Base - Red
326 0021R	Addressable Sounder / Strobe - Shallow Base - Red
326 0023R	Addressable Sounder / Strobe - Deep Base - Red

Weatherproof Strobe

The addressable Weatherproof Strobe allows a simple and effective visual indication directly from the addressable loop.

Whilst in alarm the Westherproof Strobe synchronisation is uniquely reset every 10 seconds to ensure that the beacon's flash rate remains in absolute synchronicity across the entire system.

Visual warning is available in this compact unit that is easy to install.
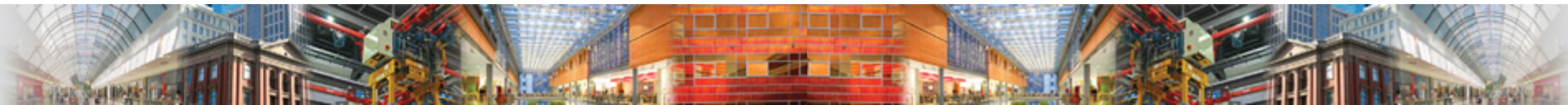
The weatherproof Strobe comes with an adaptable back box and sealing glands for surface installation and with an IP rating of IP65 is suitable for external applications.
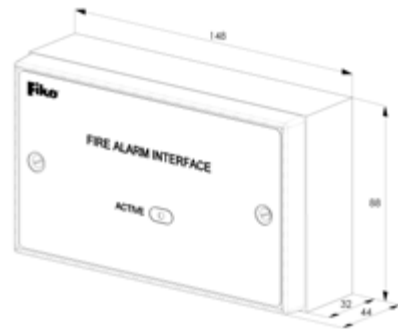
Fike P/N	Description
326 0015R	Addressable Weatherproof Strobe

Specifications:

Dimensions:	Diameter:	97mm
Depth:	Low Profile Base:	60mm
	Deep Base:	82mm
Operating Temperature:		-10°C to +50°C.
Voltage Range:		24V to 42V DC
Sounder Volume:	Low:	65dB(A) +
	Medium:	80dB(A)
	High:	85dB(A)
Strobe Operation:		5ms on / 1s interval
System Compatibility:	SITA200plus:	V2.30 onwards
	Duonet and Quadnet:	V1 onwards
Loop Current @ 24V DC / DLU Rating:	Quiescent:	0.172mA
	Active: No Sounder	18.750mA / 9 DLU
	Active: Low Sounder	19.792mA / 9.5 DLU
	Active: Med Sounder	23.958mA / 11.5 DLU
	Active: High Sounder	28.125mA / 13.5 DLU

Specifications:

Dimensions:	Diameter:	97mm
Depth:	Deep Base:	84mm
Operating Temperature:		-10°C to +50°C.
Voltage Range:		24V to 42V DC
Strobe Operation:		5ms on / 1s interval
System Compatibility:	SITA200plus:	V2.30 onwards
	Duonet and Quadnet:	V1 onwards
Loop Current @ 24V DC / DLU Rating:	Quiescent:	0.172mA
	Active:	18.750mA / 9 DLU
IP Rating:		IP65

331d/03, 331j/02, 331j/03, 331j/04

I/O Interface

The Addressable loop powered I/O Interface Module allows convenient connection of ancillary equipment from the addressable loop. The module is ideal for operating plant shutdown, door release mechanisms and access control override due to its wide range of switching configurations.

- The I/O Module connects to the loop wiring and provides a 230v AC rated DPCO relay contact, a low voltage SPCO contact for switching purposes and a single input for monitoring purposes.
- The module provides Fault Input monitoring to allow fault indication from relevant ancillary equipment, even when set to its relay / output mode.
- The module is available mounted in an industry standard double gang housing for ease of installation in either flush or surface mounting.

Fike P/N	Description
803 0006	Addressable Input / Output Module

Zone Module

The Addressable Conventional Zone Module is available for interfacing to conventional devices. The Loop Powered Conventional Zone Module connects to the loop wiring, providing a conventional circuit to monitor conventional devices.

- Conventional detectors and manual call points may be utilised. A single conventional beam detector may be connected to each module, powered directly from the loop.
- If a reduced loop loading is required, then an additional 24v power supply unit may be connected to handle the additional load.
- The module is available mounted in an industry standard double gang housing for ease of installation in either flush or surface mounting.
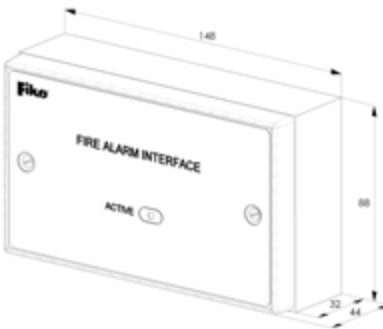
Fike P/N	Description
803 0010	Addressable Conventional Zone Module

Specifications:

Dimensions:	Overall:	148mm x 88mm x 44mm
	Back box:	148mm x 88mm x 32mm
Operating Temperature:		-10°C to +50°C
Voltage Range:		24V to 42V DC
LED Indication:	Output Activated:	LED on
Contact Rating:	Relay 1:	Max load 230V AC 3A (DPCO)
	Relay 3:	Max load 30V DC 0.5A (SPCO)
Fuses:	Fuse 1 + 2:	3.15A Antisurge 20mm Ceramic (eg. Bussman S505-3.15A)
System Compatibility:	SITA200plus:	V2.30 onwards
	Duonet and Quadnet:	V1 onwards
Loop Current @ 24V DC:	Quiescent:	0.46mA
	Active:	21.06mA
Device Loading Unit Rating:		10.5

Specifications:

Dimensions:	Overall:	148mm x 88mm x 44mm
	Back box:	48mm x 88mm x 32mm
Operating Temperature:		-10°C to +50°C
Voltage Range:		24V to 42V DC
LED Indication:	Input Activated:	LED on
Zone:	EOL:	10 to 22μF capacitor
	Firing Resistor:	680Ω
Max Zone Capacity:		20mA
System Compatibility:	SITA200plus:	V4.00 onwards
	Duonet and Quadnet:	V1 onwards
Loop Current @ 24V DC: Powered via loop:	Quiescent:	11.22mA
Active:		48.75mA
Powered via external PSU:	Quiescent:	0.40mA
Active:		7.09mA
Device Loading Unit Rating:	Powered via loop:	23.5
	Powered via external PSU:	3.5

LPCB UKAS

Pending

Remote Indicator

The Remote indication LED, when used with a compatible TWINFLEX Multipoint, legacy Sita Multipoint or Addressable ASD/Multipoint device provides a high quality LED indicator specifically designed for use in fire alarm systems.

It incorporates a high-intensity wide-angle red LED which is clearly visible from the front of the plate when active.

Its primary use is to indicate the activation of hidden or out-of-sight fire detectors.

The remote LED has been designed to fit a standard UK single gang back box and can be flush mounted.

The front label includes a white 'write on' panel allowing installers to add their own personalizedtext.

This remote indicator is compatible with Fike's TWINFLEX Multipoint, legacy Sita Multipoint or Addressable ASD/Multipoint devices and may also be utilised with other manufacturers' equipment depending on their specification.

Fike P/N	Description
300 0001	Conventional Hatari Sounder - Red
600 0092	Remote Indicator

Head Removal Tools

The Head Removal Tool makes maintenance of systems simple. A necessity for maintenance, the Head Removal Tool is supplied free of charge with any Fike control panel, but can also be ordered separately if more are required.

- The Head removal tool can be used to release the optical chamber on any Multipoint detector/sounder and also to unlock the Hatari and Flashpoint sounder beacon.
- A separate removal tool is available for the ASD detector.
- To assist on site maintenance the Head Removal Tool may be attached to an extendable pole. The ASD version has been designed to attach with Detector Testers, Solo poles.

Fike P/N	Description
25 0015 301	Multipoint Head Removal Tool
25 0046 201	ASD Head Removal Tool

Specifications:

Dimensions:	Width x Height:	85mm x 85mm
Depth:	Flush:	15mm
	Std Back Box:	48mm
Operating Temperature:		-10°C to +50°C
Voltage Range:		24V to 42V DC
LED Indication:	Activated:	LED on
System Compatibility:	SITA200plus:	V2.00 onwards
	Duonet and Quadnet:	V1 onwards
	TWINFLEX:	V1 onwards
Loop Current @ 24V DC:	Quiescent:	0mA
	Active:	1.04mA
Device Loading Unit Rating:		0.5

Specifications:

Multipoint Head Removal Tool:

Device Compatibiltiy:	All Multipoint type devices
	All Flashpoint type devices
	All Hatari type devices
Pole Fitting:	31mm

ASD Head Removal Tool:

Device Compatibiltiy:	All ASD devices
Pole Fitting:	Standard Solo fitting.
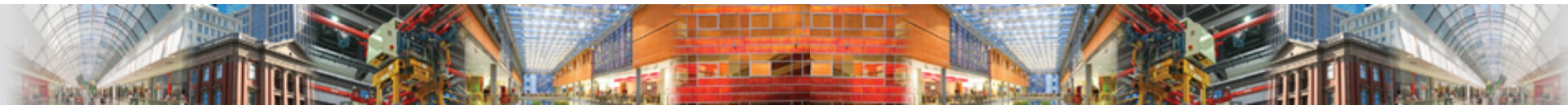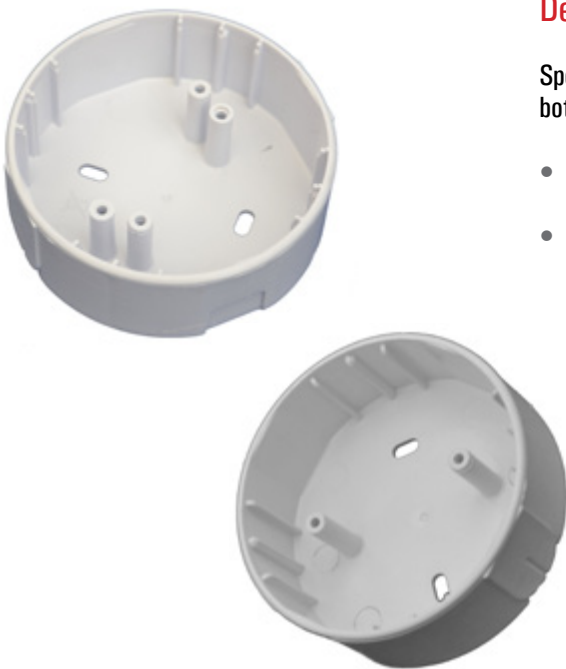
Deep Detector Bases

Specially designed for Fike detectors the optional "deep base" is available for both Multipoint detectors/sounders and ASD detectors / sounders / strobes.

- Pre formed 'cut-outs' are provided for trunking, conduit and cable glands etc.
- Plenty of space is also available for your cable entry to the device.

Fike P/N	Description
900 0001	Multipoint Deep Base
900 0003	ASD Deep Base

MCP Protective Cover

A protective clear plastic cover flap that can be fitted to Fike's manual call point range in order to protect against accidental activation in areas such as sports halls and in industrial applications.

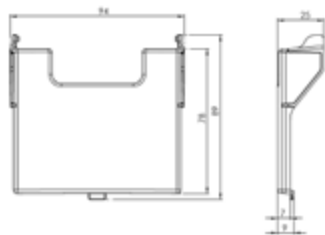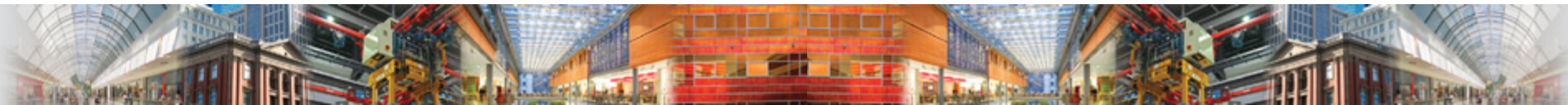| Fike P/N	Description
25 0083 303	Manual Call Point Cover Flap

Specifications:

Multipoint Deep Base
Diameter: 105mm
Depth: 39mm
Compatibility: Multipoint devices

ASD Deep Base
Diameter: 105mm
Depth: 39mm
Compatibility: ASD devices

Specifications:

Width: 94mm
Depth: 89mm
Compatibity: All Fike Manual Call Points

Manual Call Point & Weatherproof MCP

All Fike's Manual call points are designed to comply with the latest European standards: EN54 part 11.

- The unit may be reset using the key provided, eliminating the need for replacement glass.
- The test key is inserted into the front of the unit in order to allow its use wherever it may be is sited. The user can test the call point usingthe test key or by depressing the element.
- There is no need to remove the front cover and the glass at installation; just one screw attaches the whole unit together.
- The back box can be fitted at the time of installation with other first fix items. The call point unit can simply be installed in later. An adaptor plate is also supplied, for use with standard flush or surface back boxes.
- The manual call point is connected to the back box using simple flying lead terminations

Specifications:

Dimensions:	Width x Height:	88mm x 88mm
Depth:	Standard inc base:	52mm
	Flush mounted :	25mm
Operating Temperature:		-10°C to +50°C.
Voltage Range:		24V to 42V DC
LED Indication:	Activated:	0.3 Second Interval
Firing Resistor:		470 Ohms

331d/01

Fike P/N	Description
400 0006	Conventional Manual Call Point

Specifications:

Dimensions:	Width x Height:	89mm x 89mm
Depth:	Standard inc base:	71mm
Operating Temperature:		-10°C to +50°C
Voltage Range:		24V to 42V DC
IP Rating:		IP65
LED Indication:	Activated:	0.3 Second Interval
Firing Resistor:		470 Ohms

331d/02

Fike P/N	Description
400 0007	Conventional Weatherproof Manual Call Point

Beam Detector

Aligning an optical beam has been extremely challenging in the past, often giving uncertain results that can lead to false alarms. By utilising motors within the beam head, the Fike Fire Beam can make commissioning a safer and more accurate procedure. Our unique high quality stepper motors, allows us to make minute adjustments of just 1/40 of 1 degree to the beam head. This is automatically controlled by software which finds and continually monitors its position in relation to the reflector. A simple commissioning procedure ensures that you achieve perfect alignment every time and that your beam keeps that alignment. In addittion, the smallest movement of a building through heat changes or settlement will move a beam off its target (imagine a couple of degrees of movement in a 100m building). The Fike Fire Beam will continually monitor any movement and re-align itself automatically, eliminating the need for costly (...). With low level control, once you have the head in place and wired in, you can make any changes and adjustments you want from ground level.

You can:
- commission the beam from ground level
- manually move the beam head
- view the air quality
- view the status of the beam
- change sensitivity thresholds
- change the time to fire and fault
- turn on and off the green flashing light
- see fire and fault counts
- see how much compensation has been made for dirt build up (you will only have to clean the head and reflector when it needs it)
- complete a self test and even monitor the temperature at the beam head

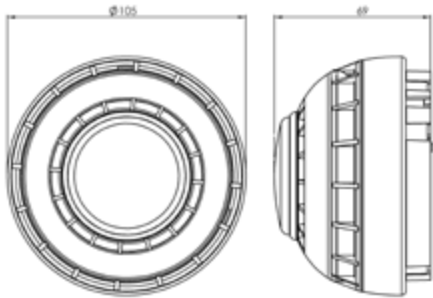| Fike P/N	Description
600 0086	5 - 40 Metre Fire Beam
600 0087	40 - 80 Metre Extension Kit
600 0088	80 - 100 Metre Extension Kit

Specifications:

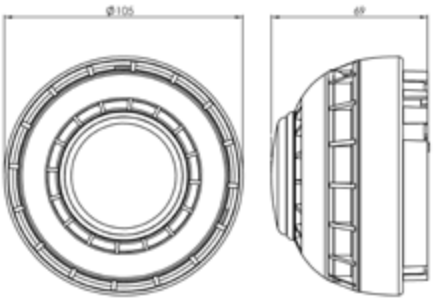| Dimensions: | Beam Head: | 180mmH x 155mmW x137mmD |
Controller:		185mmH x 120mmW x 62mmD
Voltage Range:		10.2 to 40 VDC
Supply Current:		3mA (constant current) in all operational states
Operating Temperature:		-10°C to +55°C
Humidity:		10 to 95% RH Non-condensing
IP Rating:		IP65 when suitably mounted and terminated
Optical Wavelength:		870nm
Maximum Angular Alignment:		+/-15°
Protection Range:	Standard Product:	5 to 40 metres
	Mid-Range Reflector Kit:	40 to 80 metres
	Long Range Reflector Kit:	80 to 100 metres
Alarm Sensitivity Levels:		25%(1.25dB) to 50%(3dB) in 1%(0.05dB) increments
		(default 35% (1.87dB))VdsVdS

G211019

Hatari Sounder

Compact conventional sounder with sound output of 100 dBA, the Hatari sounder is an attractive, compact unit that can be used on any conventional system or sounder circuit.

- Features a bayonet locking mechanism so the base can be installed with other first fix items and the unit itself can be simply plugged in later.
- As per European standards the conventional Hatari sounder has been designed to comply with EN54 part 3. Includes an anti-tamper mechanism which means the sounder can only be removed once installed by way of the Multipoint Head Removal Tool.
- Available in Red or White

Fike P/N	Description
300 0001	Conventional Hatari Sounder - Red
300 0002	Conventional Hatari Sounder - White

Hatari Sounder/Strobe

The Hatari Sounder is a Visual and audible warning for conventional systems and sounder circuits in one compact device. As per European standards the conventional Hatari sounder has been designed to comply with EN54 part 3

- The Hatari sounder is a conventional sounder with sound output of 100 dBA with a combined visual indication beacon.
- The Hatari sounder available in Red or White is an attractive, compact unit that can be used on any conventional system or sounder circuit.
- Bayonet locking mechanism so the base can be installed with other first fix items and the unit itself can simply be installed in later.
- and includes an anti-tamper mechanism which means the sounder can only be removed once installed by way of the Multipoint Head Removal Tool.
- Available in Red or White.

Fike P/N	Description
300 0011	Conventional Hatari Sounder / Strobe - Red
300 0012	Conventional Hatari Sounder / Strobe - White

Specifications:

Dimensions:		
	Diameter:	103mm
	Depth:	70mm
Operating temperature :		-10°C to +50°C.
Voltage Ranges:		18-35v DC
Operating Current :	Maximum:	35mA
	Average:	20mA
Sound Pressure Outputs:		105dB(A) @ 1m anechoic (Dual Tone)
Flammability:		Class FV-2 (ISO 1210:1992)
IP Rating:		21C

Specifications:

Dimensions:		
	Diameter:	103mm
	Depth:	70mm
Operating temperature :		-10°C to +50°C.
Voltage Ranges:		18-35v DC
Operating Current :	Maximum:	50mA
	Average:	35mA
Sound Pressure Outputs:		105dB(A) @ 1m anechoic (Dual Tone)
Beacon:		0.5 Sec On, 0.5 Sec Off
Flammability:		Class FV-2 (ISO 1210:1992)
IP Rating:		21C
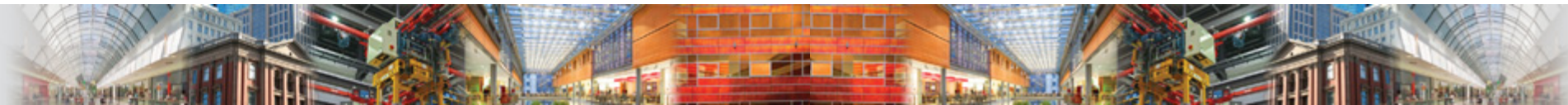
Over the past few months a great deal of effort has been invested in improving the level of information and knowledge delivered within our training courses, resulting in a new format for all technical training.

A new training room has been designed and built to ensure all delegates benefit from 'hands on' practical training experience with the equipment being covered.

Engineers who attend the new format courses will also be logged and monitored. This is a new procedure for Fike Safety Technology that allows us to ensure the highest level of expertise is shown from every trained engineer and identify any further training requirements.

MODULE 1 - TWINFLEX & TWINFLEXpro
The TWINFLEX & TWINFLEXpro course starts with a system presentation providing an overview of the control panel, connections and menu structure. Field devices, fault finding and other associated equipment is also covered. Every participant will also experience hands on demonstration / programming of the control panel features.

MODULE 2 - SITA200plus
The SITA200plus course starts with a system presentation providing an overview of the control panel, connections and menu structure. Field devices, fault finding, associated equipment and the principles of soft addressing are also covered. Hands on demonstration / programming of the control panel features and OSP software.

MODULE 3 - DUONET & QUADNET
The Duonet & Quadnet course starts with a system presentation providing an overview of the control panel, connections and menu structure. Field devices, fault finding, associated equipment and the principles of soft addressing are also covered. Every participant will also experience hands on demonstration / programming of the control panel features and OSP software.

MODULE 4 - SIGNI*FIRE*
The Signi*Fire* training course provides an overview of video fire detection systems including design, installation and commissioning procedures. All aspects of programming of the Signi*Fire* system are also covered.

MODULE 5 - FAAST
The FAAST training course provides an overview of the FAAST Aspirating Detection system including design, installation and commissioning procedures. All aspects of programming of the system are also covered. All courses are held at our Cwmbran office and are run between 9.30am and 4.30pm. Please contact our Sales department for course dates and further information.

Fike P/N	Description
803 0008	SITA200plus Training Course
803 0011	TWINFLEX & TWINFLEXpro Training Course
803 0012	Duonet & Quadnet Training Course
803 0013	Signi*Fire* Training Course
803 0014	FAAST Training Course

TWINFLEX Systems: DLU & SLU Zone Load Ratings

The maximum number of devices that can be connected to any TWINFLEX zone is 32, however the exact number of devices that can be connected is determined by the loading of each device connected. To simplify the process of calculating zone loading, the SLU (Sounder Loading Unit) and DLU (Device Loading Unit) schemes have been developed. The 24 SLU's for the TWINFLEX panels and 160 DLU's for the TWINFLEXpro panels represent the maximum available capacity for each zone. Each device is also given an SLU and DLU rating- the DLU or SLU values for each device must be added together and the total must not exceed the rating of the panel. Some examples are given below.

TWINFLEXpro Zone DLU Calculation

Description	Quantity	DLU Rating	Total DLU
TWINFLEX Multipoint	4	1.5	6
TWINFLEX Multipoint with Sounder @ High Volume	7	8	56
TWINFLEX MCP	2	16	32
TWINFLEX Falshpoint @ High Volume	2	24	48
	Total Zone DLU		**142**

Total zone DLU must not exceed 160

TWINFLEX V3 (or Earlier) Zone SLU Calculation

Description	Quantity	SLU Rating	Total DLU
TWINFLEX Multipoint	4	0.5	2
TWINFLEX Multipoint with Sounder @ Med Volume	7	1	7
TWINFLEX MCP	2	3	6
TWINFLEX Falshpoint @ Med Volume	2	4	8
	Total Zone SLU		**23**

Total zone SLU must not exceed 24

Addressable Systems: DLU Loop Load Ratings

The maximum number of devices that can be connected to any addressable loop is 200, however again the exact number of devices that can be connected is determined by the loading of each device connected. To simplify the process of calculating loop loading the DLU (Device Loading Unit) scheme has been developed. The 450 DLU's listed for all addressable panels represent the maximum available capacity for each loop. Each device is also given a DLU rating, the DLU values for each device must be added together and the total must not exceed the rating of the panel. Some examples are given below.

Loop DLU Calculation

Description	Quantity	DLU Rating	Total DLU
ASD Mk2 (21/10/09 Onwards)	35	1	35
ASD with Sounder Mk2 (21/10/09 Onwards) @ Med Volume	40	4.5	180
Manual Call Point	12	3	36
Sounder / Strobe @ Med Volume	7	11.5	80.5
	Total Loop DLU		**331.5**

Total loop DLU must not exceed 450

THE TOTAL SOLUTION

Fike has long been known for being a leader in service, support and delivery in the fire protection industry. No matter what the concern, no matter what the time, we make it easy to reach a trained, knowledgeable Fike representative who will assist you quickly. Combine that with the most advanced technology available in fire alarm systems, competitively priced to meet all your application needs, and you have a total solution for all your fire alarm and fire protection needs.

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