

1 or 2 loop analogue
addressable fire panels

FIRE! LP.1 A.003 Zone 01
RECEPTION MAIN CORRIDOR



Normal supply - constant green light
Main failure - flashing green light

Alarm condition - flashing red light

To Access - enter code - accessed

Then to Evacuate - press

to Silence - press

to Reset - press

Fault condition - call Engineer

Test the system regularly, consult user operating instructions

Normal supply fault

EN 54-2 & 4: 1997

1 or 2 loop
analogue
addressable fire panels

the
AFP
range

POWERFUL, INTUITIVE AND AVAILABLE NOW

the AFP range

of 1 TO 2 LOOP
ANALOGUE
ADDRESSABLE
FIRE ALARM
PANELS

Fully compliant with EN54 parts 2 & 4, the AFP Range of analogue addressable fire alarm panels offers high performance at a competitive price.

Attractively designed, easy to use and simple to install, the AFP's improved specification now includes delay timers, phased evacuation facilities, adjustable contamination levels, the programming of non-fire events and additional auxiliary inputs and outputs.

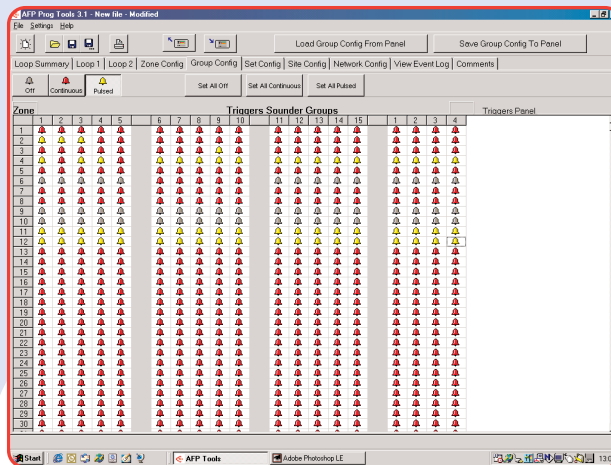


AFP Range Features

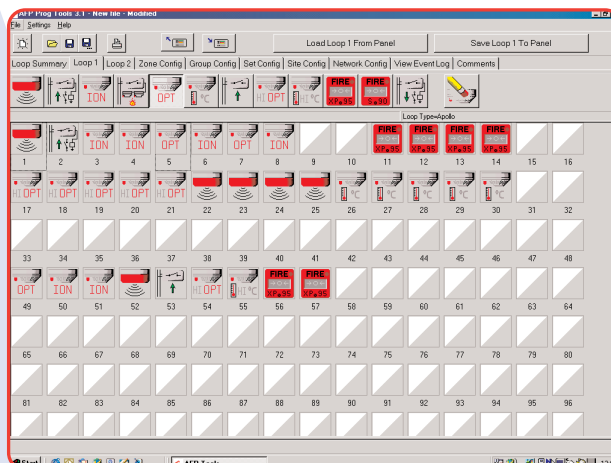
- Fully compliant with EN54 parts 2 & 4.
- Compatible with Apollo XP95, System Sensor or Nittan protocols.
- 16 zonal alarm leds, expandable to 32 via the AFP703 extension LED kit.
- Powerful short circuit protected loop drivers, capable of supporting up to 32 loop powered sounders per loop.
- Four separate independently programmable conventional sounder circuits.
- Alert, Reset, Silence and Class Change inputs.
- Fire, Fault, Remote, Pre-Alarm, Reset and 24V outputs.
- Comprehensive auto-learn facility allowing the panel to self-configure to devices connected to the loop(s).
- Integral 24V 3A EN54 switch mode PSU rated @185-260 Va.c, 50/60 Hz (1.5A PSU on AFPE).
- Programmable sounder / remote output delay facilities (per zone).
- Adjustable contamination levels.
- Earth fault monitoring.
- Phased evacuation facility.
- Push button access code entry to Access Levels 2 and 3.
- Sophisticated test and maintenance facilities.
- Intuitive easy-to-use Windows 95/98/2000 based upload/download PC programme.
- Space available for 7Ahr VRLA back-up batteries.
- Easy to read, 80 character back-lit display.
- 40 characters of custom text per device.
- 999 event monitoring.
- Optional AFP Network Driver Card allows the connection of up to 15 AFP repeater panels (this feature is not available on AFPE economy panels).

These new features, combined with the panel's comprehensive range of existing features and straightforward programming via the AFP's intuitive upload/download programming software, make it the obvious choice for all one or two loop analogue addressable fire alarm applications.

Panels are supplied with an integral loop driver already fitted and are expandable to two loops via the AFP702 plug-on loop driver. For basic single loop applications that do not require repeater panels, a low-cost non-expandable version of the AFP is also available.



Sophisticated sounder group mapping can be easily implemented using the AFP's intuitive upload-download programming software (illustrated above). In addition to providing a visual overview of devices connected to the panel (below), the software also includes an editable spreadsheet-style loop summary for even greater flexibility.



AFP701/X, AFP701/W,
AFP701/N
standard 1 loop, expands to 2 loops

AFP701E/X, AFP701E/W,
AFP701E/N
economy single loop, non-expandable

Power Supply Specification

Mains supply voltage	230V a.c. ± 10% 50/60Hz	230V a.± 10% 50/60Hz
Internal power supply	27V d.c Nominal	27V d.c Nominal
Total output current limited to	3A @ 230 V a.c.	1.5A @ 230V a.c.
Supply and battery charger monitored for failure	Yes	Yes
Batteries monitored for disconnection and failure	Yes	Yes
Batteries protected against deep discharge	Yes	Yes
Max. battery size and type	7.0 Ahr VRLA	7.0 Ahr VRLA
Quiescent current drain (1 loop unloaded)	< 80mA	< 80mA
Quiescent current drain (2 loop unloaded)	<100mA	not applicable
Earth fault monitoring	Yes (any conductor)	Yes (any conductor)
Temperature compensated charging	Yes	Yes

Loop Driver Specification

Max. number of loop drivers allowed	2	1
Line monitored for open and short circuit faults	Yes	Yes
Onboard loop isolators with LED indication when active	Yes	Yes
Auto-polling from each loop end	Yes	Yes
Max. loop output current	350mA	350mA
Max. number of addressable devices per loop (Apollo XP95)	126	126
Max. number of addressable devices per loop (System Sensor)	99 sensors + 60 modules	99 sensors + 60 modules
Max. number of addressable devices per loop (Nittan)	126	126
Max. number of loop powered sounders per loop (all protocols)	32	32
Number of programmable sounder groups	15	15
Number of programmable output sets	32	32

Conventional Sounder Circuit Specification

Number of programmable circuits	4	4
End of line resistor value	6800 Ω 5% Tol. 0.25 W	6800 Ω 5% Tol. 0.25 W
Line monitored for open and short circuit faults	Yes	Yes
Outputs fused at	1A	1A
Max. number of bells @ 25mA	120	60
Max. number of sounders @ 20mA	150	75

Auxiliary Outputs

Type	Open collector
Max sink current	100mA each (300mA total)
Max open circuit voltage	27 V d.c
Reset output	Active during reset cycle
Remote output	Active during any fire condition (can be zonally delayed or isolated)
Pre-Alarm output	Active during any pre-alarm condition
Fire 1	Active during any fire condition
Fire 2	Active during any fire condition (except silenced fire)
Fault	Active when no faults are present - failsafe to open circuit
24V Aux Power Output	1A fused

Auxiliary Inputs

Reset	Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching)
Silence	Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching)
Class change (Evacuate - continuous sounders)	Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching)
Alert (Phased Evacuate - pulsed sounders)	Connect to 0V to trigger. Max input voltage 27V d.c. (non-latching)

Fuses (to IEC - EN60127 Pt2)

Mains Fuse	1A HRC Ceramic 20mm
Sounder Outputs (F1, F2, F3, F4)	1A F 20mm
Auxiliary Output (F5)	1A F 20mm
Battery Fuse	3A F 20mm

Panel Indicators and Controls

Control buttons	Silence, Reset and Evacuate.
Event scrolling and menu access buttons	Up (1); Down (2); Accept (3); Abort (4)
Liquid Crystal Display	Two lines x 40 characters, backlit
LED indicators	16 Zonal LEDs (expandable to 32); General Fire, System Energised; Pre-Alarm; Remote Output Activated; Menus Accessed; Disablement; Test; Remote Output Disabled; Silenced; General Fault; System Fault;

Physical Dimensions

Approx. dimensions of back box (WxHxD)	410 x 250 x 80mm (metal)
Approx. dimensions of lid (WxHxD)	439 x 274 x 7mm (plastic); 435 x 270 x 5mm (metal);
Weight (without batteries)	4.5kg

Cabling Requirements

Type of cable	Fire resistant screened cable, minimum size 1mm ²
Max. cable length per loop	1 KM
Connector blocks	Plug-on type, largest acceptable conductor size 1.5mm ²
Max. allowable loop impedance (each conductor)	20 Ω
Max. cable capacitance	.27µF

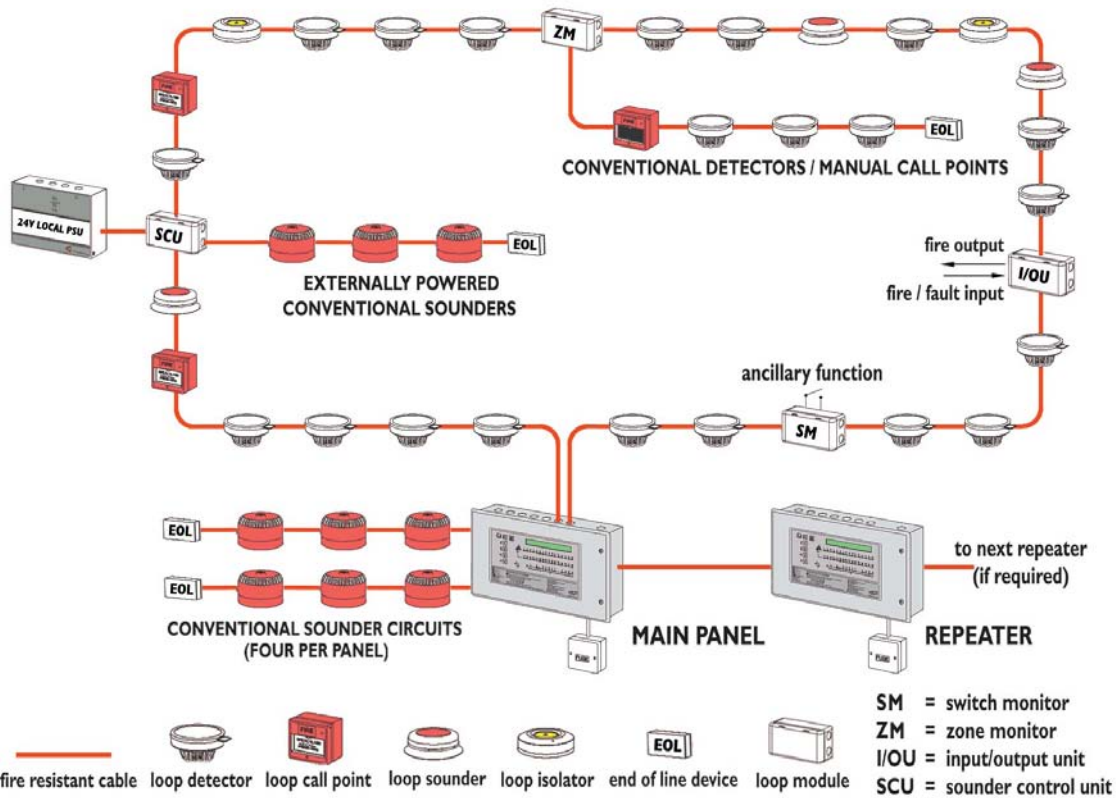
Repeater Specification

Repeater connection	Via AFP711 Network Driver Card fitted to Main panel's RS485 port	not applicable
Max. number. of repeaters per system	15	not applicable
Max. cable length per repeater network	1 KM (daisy chain configuration)	not applicable

PC/Printer Interface

PC connection	Via main panel RS232 molex connector (lead supplied in AFP707 upload/download software kit)
Printer connection	Via main panel RS232 connector block. An AFP709 Off-Board Printer Kit c/w isolation socket is available

Typical Wiring



Part Numbers

Apollo XP95 Protocol Panels

AFP701E/X	AFP 16 zone economy single loop panel, does not extend, Apollo XP95 protocol, plastic lid, metal base
AFP701/X	AFP 16 zone single loop panel, extends to 2 loops, Apollo XP95 protocol, plastic lid, metal base
AFP701/XM	AFP 16 zone single loop panel, extends to 2 loops, Apollo XP95 protocol, metal lid, metal base
AFP702/X	AFP loop driver card, Apollo XP95 protocol

System Sensor Protocol Panels

AFP701E/W	AFP 16 zone economy single loop panel, does not extend, System Sensor protocol, plastic lid, metal base
AFP701/W	AFP 16 zone single loop panel, extends to 2 loops, System Sensor protocol, plastic lid, metal base
AFP701/WM	AFP 16 zone single loop panel, extends to 2 loops, System Sensor protocol, metal lid, metal base
AFP702/W	AFP loop driver card, System Sensor protocol

Nittan Protocol Panels

AFP701E/N	AFP 16 zone economy single loop panel, does not extend, Nittan protocol, plastic lid, metal base
AFP701/N	AFP 16 zone single loop panel, extends to 2 loops, Nittan protocol, plastic lid, metal base
AFP701/NM	AFP 16 zone single loop panel, extends to 2 loops, Nittan protocol, metal lid, metal base
AFP702/N	AFP loop driver card, Nittan protocol

AFP Range Ancillaries (all protocols)

AFP385	AFP flush mounting bezel
AFP703	AFP 16 zone extension LED kit
AFP707	AFP upload/download software kit c/w lead
AFP709	AFP off-board printer kit
AFP710	AFP 16 zone fully functional repeater plastic lid, metal base, up to 15 per system
AFP711	AFP network driver card, one per repeater system - fit at Master



SOLID STATE SECURITY LIMITED

Tel: 01257 463018. Fax: 01257 462038. Web: www.solidstatesecurity.co.uk

ADDRESSABLE SOUNDERS

'VANTAGE' LOOP POWERED HORN SOUNDER

'VANTAGE-COMBI' LOOP POWERED SOUNDER / BEACON

'VECTOR' LOOP POWERED BASE SOUNDER



***New locking base system on Vantage and Vantage-Combi allows compliance with Clause 12.2.2 of BS5839 Part 1 2002.**

Vantage-Combi sounder/beacon also allows compliance with the Disability Discrimination Act.

- Compatible with Apollo XP95, Xplorer, Series 90 and Discovery protocols
- Straightforward DIL switch addressing
- Attractive low profile design
- Excellent lateral sound distribution
- Three Evacuate tones (continuous, warble or sweep) and one Alert tone
- Volume adjustable from 100dB to 94dB (on Vantage and Vantage-Combi) and from 91dB downwards (on Vector)
- New locking system offers full compliance with BS5839 Part 1 2002 Clause 12.2.2* ('fire alarm devices should be capable of being removed only by the use of a special tool')
- Bayonet fixing arrangement on Vantage and Vantage-Combi ensures 'quick-fit' installation
- Vantage and Vantage-Combi can be ordered with an IP42 rated shallow base or an IP65 rated deep base (see overleaf for order codes). Shallow bases have a wide access hole for cable entry; deep bases allow wiring access through top and side
- All sounders can be set to operate in 'master' or 'shadow' mode (multiple shadow sounders can be given the same ID address as one 'master' sounder, a particularly useful feature on heavily populated systems)
- Group addressing facility on Vantage and Vantage-Combi allows multiple sounders to be activated simultaneously
- Vantage and Vantage-Combi sounders are designed for stand-alone use. Vector base sounders are designed for use as part of an interior sounder/detector base combination with optional red or white lids available for stand-alone use
- Excellent discounts available for quantity orders

ADDRESSABLE SOUNDERS : PART NUMBERS & SPECIFICATIONS

BF330CASR VANTAGE ADDRESSABLE HORN SOUNDER C/W SHALLOW BASE (RED)
BF330CASW VANTAGE ADDRESSABLE HORN SOUNDER C/W SHALLOW BASE (WHITE)



Sound output @ 1m	100dB (high); 94dB (low)
Typical quiescent current at 24V	800µA
Typical alarm current at 24V	7.5mA
Voltage range.....	17-28V d.c.
Evacuate tones	Continuous, Warble or Sweep (link selectable)
Alert tone.....	A non-adjustable single frequency pulsed tone
IP Rating	IP42
Weight	160g

BF330CADR VANTAGE ADDRESSABLE HORN SOUNDER C/W DEEP BASE (RED)
BF330CADW VANTAGE ADDRESSABLE HORN SOUNDER C/W DEEP BASE (WHITE)



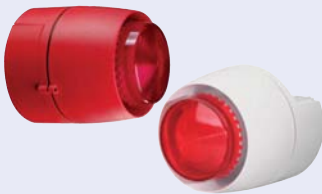
Sound output @ 1m	100dBa (high); 94dBa (low)
Typical quiescent current at 24V	800µA
Typical alarm current at 24V	7.5mA
Voltage range.....	17-28V d.c.
Evacuate tones	Continuous, Warble or Sweep (link selectable)
Alert tone.....	A non-adjustable single frequency pulsed tone
IP Rating	IP65
Weight	195g

BF333CASR VANTAGE-COMBI ADDRESSABLE SOUNDER/BEACON C/W SHALLOW BASE (RED)
BF333CASW VANTAGE-COMBI ADDRESSABLE SOUNDER/BEACON C/W SHALLOW BASE (WHITE)



Sound output @ 1m	100dBa (high); 94dBa (low)
Typical quiescent current at 24V	800µA
Typical alarm current at 24V	8mA
Flash rate	once per second in Evacuate or Alert mode
Voltage range.....	17-28V d.c.
Evacuate tones	Continuous, Warble or Sweep (link selectable)
Alert tone.....	A non-adjustable single frequency pulsed tone
IP Rating	IP42
Weight	205g

BF333CADR VANTAGE-COMBI ADDRESSABLE SOUNDER/BEACON C/W DEEP BASE (RED)
BF333CADW VANTAGE-COMBI ADDRESSABLE SOUNDER/BEACON C/W DEEP BASE (WHITE)



Sound output @ 1m	100dBa (high); 94dBa (low)
Typical quiescent current at 24V	800µA
Typical alarm current at 24V	8mA
Flash rate	once per second in Evacuate or Alert mode
Voltage range.....	17-28V d.c.
Evacuate tones	Continuous, Warble or Sweep (link selectable)
Alert tone.....	A non-adjustable single frequency pulsed tone
IP Rating	IP65
Weight	230g

BF330CR VECTOR ADDRESSABLE BASE SOUNDER (WHITE) supplied without lid



Sound output @ 1m	91dBa Max (adjustable downwards)
Typical quiescent current at 24V	800µA
Typical alarm current at 24V	7mA
Voltage range.....	18-28V d.c.
Evacuate tones	Continuous, Warble or Sweep (link selectable)
Alert tone.....	A non-adjustable single frequency pulsed tone
IP Rating	IP42
Weight	105g
Optional lid for stand-alone use	BF330CRLIDW(white); BF330CRLIDR (red)



SOLID STATE SECURITY LIMITED

Tel: 01257 463018. Fax: 01257 462038. Web: www.solidstatesecurity.co.uk

CFP

range



2 to 8 zone
EN54
conventional fire
alarm panels

2-8 Zone EN54 Conventional Fire Alarm Panels

CFP range

Fully compliant with EN54 parts 2 and 4, the CFP conventional fire alarm panel offers an array of user and installer friendly features.

Supplied in an attractive flush or surface mountable plastic enclosure, 2, 4 and 8 zone versions are available, each featuring four conventional sounder circuits, class change and alert inputs, two fire outputs, a fault output and a reset output.

A wide range of engineering functions are also provided including (depending on the model purchased) selectable zone delays, coincidence and non-latching zone facilities. Comprehensive test and fault finding facilities are also provided on all variants.



LPCB Ref. 176a
to BS EN 54 pts 2 & 4

In addition to our standard and economy CFP panels, three LPCB approved versions are available. The LPCB stamp of approval is recognised worldwide and demonstrates that the CFP has been tested and certified as being compliant with EN54 parts 2 and 4 by the Loss Prevention Certification Board.

CFP features

- ▶ Fully compliant with EN54 Parts 2 and 4
- ▶ Available with 2, 4 or 8 zone circuits
- ▶ Four conventional sounder circuits
- ▶ Standard, economy and LPCB approved versions available
- ▶ Installer-friendly design accommodates easy first fix and straightforward maintenance
- ▶ Attractive flush or surface mountable plastic lid and enclosure
- ▶ Auxiliary remote, auxiliary fire, fault and reset outputs
- ▶ 'Class change' and alert inputs
- ▶ Low quiescent current
- ▶ Intuitive user-friendly interface
- ▶ Multiple indicators
- ▶ End of line units included (one per zone)
- ▶ Optional keyswitch or push button access code entry to Access Levels 2 and 3
- ▶ Integral 1.5A switch mode PSU
- ▶ Detector and sounder circuits share common negative allowing straightforward three-wire retro-installation
- ▶ Ancillary connections provided for up to eight two-wire repeaters (one CFP761 network driver card required per system) and optional CFP relay boards. Ancillary connections are not provided on CFP economy panels.
- ▶ Wide range of engineering functions including (dependent on model purchased) zone test, coincidence, zone delay and non-latching zones. See chart below for details.

Which CFP?	Zone delay facility	Non-latching zone facility	Coincidence (double-knock) facility	Zone test facility	Fault diagnostic facilities	Ancillary connections for system expansion
CFP STANDARD PANELS	✓	✓	✓	✓	✓	✓
CFP ECONOMY PANELS	✗	✗	✗	✓	✓	✗
CFP LPCB APPROVED PANELS	✓	✗	✗	✓	✓	✓

This chart illustrates the different engineering functions available on the CFP range of fire panels

CFP Technical Specifications

Power Supply Specification

Mains supply voltage	230V 50/60Hz
Mains rated current	350mA maximum
Internal power supply	19V - 28.5V (27V nominal). Ripple 7V maximum (battery fault)
Total output current limited to	1.5A
Supply and battery charger monitored for failure	YES (battery charger is also temperature compensated)
Batteries monitored for disconnection and failure	YES
Batteries protected against deep discharge	YES (Deep discharge cut off approx. 21 volts)
Max. battery size and type	2 x 12V 3.3Ah VRLA (Valve Regulated Lead Acid) connected in series
Mains fuse	240V 1A HRC ceramic 20mm compliant with IEC (EN60127 PT2)
Battery fuse	1.6A F 20mm compliant with IEC (EN60127 PT2)
Current draw from battery (Mains failed)	1.5A maximum

Detector Circuit Specification

	CFP Standard Panels	CFP Economy Panels	CFP LPCB Approved Panels
Number of circuits	2 (CFP702-4 & CFP702-4K) 4 (CFP704-4 & CFP704-4K) 8 (CFP708-4 & CFP708-4K)	2 (CFP702E-4 & CFP702E-4K) 4 (CFP704E-4 & CFP704E-4K) 8 (CFP708E-4 & CFP708E-4K)	2 (CFP702-4/LPC) 4 (CFP704-4/LPC) 8 (CFP708-4/LPC)
Cable type	Fire resistant screened cable, minimum conductor size 1mm ²		
Connector blocks	Plug-on type, largest acceptable conductor size 1.5mm ²		
Max cable length per circuit	500 metres		
Line monitored for open circuit and short circuit	YES		
Line monitored for detector removal	YES - end of line monitoring device modules provided		
Maximum allowable impedance (each conductor)	20W		
Maximum cable capacitance	0.27mF		
Call point resistor value	470 to 680Ω		
Max. number of smoke/heat detectors per zone	25		
Max. combined number of detectors & manual call points	32 per zone		

Sounder Circuit Specification

Number of circuits	4
Cable type	Fire resistant screened cable, minimum conductor size 1mm ²
Connector blocks	Plug-on type, largest acceptable conductor size 1.5mm ²
Max cable length per circuit	500 metres
End of line resistor value	6800 5% Tol. 0.25W (blue, grey, red, gold)
Each circuit monitored for open and short circuit	YES
Alarm voltage	27V maximum, 20V minimum (final battery voltage)
Sounder circuit fuses (one per circuit)	Resetable type (200mA min. hold current; 400mA max. trip current; 50mA when tripped. Reset when faults removed)
Maximum total sounder output current to all outputs	4 x 200mA = 800mA
Maximum No. of bells @ 25mA	32
Maximum No. of electronic sounders @ 20mA	40 (sounders must be polarised)

Auxiliary Outputs

Type	Non monitored open collector transistor
Max. sink current	30mA each
Max. open circuit voltage	27Vd.c
Reset output	Active during reset cycle
Remote output	Active during any unsilenced fire condition (provided all relevant delays have expired)
Auxiliary output	Active during any fire condition (provided all relevant delays have expired)
Fault output	Active when no faults are present - failsafe to open circuit
24V aux power output (for use with the above)	Output protected by a resetable fuse (100mA min. hold current). Resets when fault removed

Auxiliary Inputs

Class Change (makes sounders sound continuously)	Connect to 0V to trigger. Max. input voltage 27V. (Non-latching)
Alert (makes sounders pulse intermittently)	Connect to 0V to trigger. Max. input voltage 27V. (Non-latching)

User & Engineer Controls

General user controls (access level one)	Mute internal sounder; Override delays; Enter access levels																		
Authorised user controls (access level two)	Silence alarm sounders; Activate alarm sounders; Reset the system; Test the lamps; Disable/enable zones Disable/enable fault output; Disable/enable remote output; Disable/enable sounders, Disable/enable auxiliary output; Disable/enable output delays (not available on CFPE).																		
Engineer controls (access level three)	<table border="1"> <thead> <tr> <th>CFP Standard Panels</th> <th>CFP Economy Panels</th> <th>CFP LPCB Approved Panels</th> </tr> </thead> <tbody> <tr> <td>Program coincidence (double knock)</td> <td>Invoke one man walk test</td> <td>Program delays</td> </tr> <tr> <td>Setup zones for non-latching operation</td> <td>Enter fault diagnostic facilities</td> <td>Invoke one man walk test</td> </tr> <tr> <td>Program delays</td> <td></td> <td>Enter fault diagnostic facilities</td> </tr> <tr> <td>Invoke one man walk test</td> <td></td> <td></td> </tr> <tr> <td>Enter fault diagnostic facilities</td> <td></td> <td></td> </tr> </tbody> </table>	CFP Standard Panels	CFP Economy Panels	CFP LPCB Approved Panels	Program coincidence (double knock)	Invoke one man walk test	Program delays	Setup zones for non-latching operation	Enter fault diagnostic facilities	Invoke one man walk test	Program delays		Enter fault diagnostic facilities	Invoke one man walk test			Enter fault diagnostic facilities		
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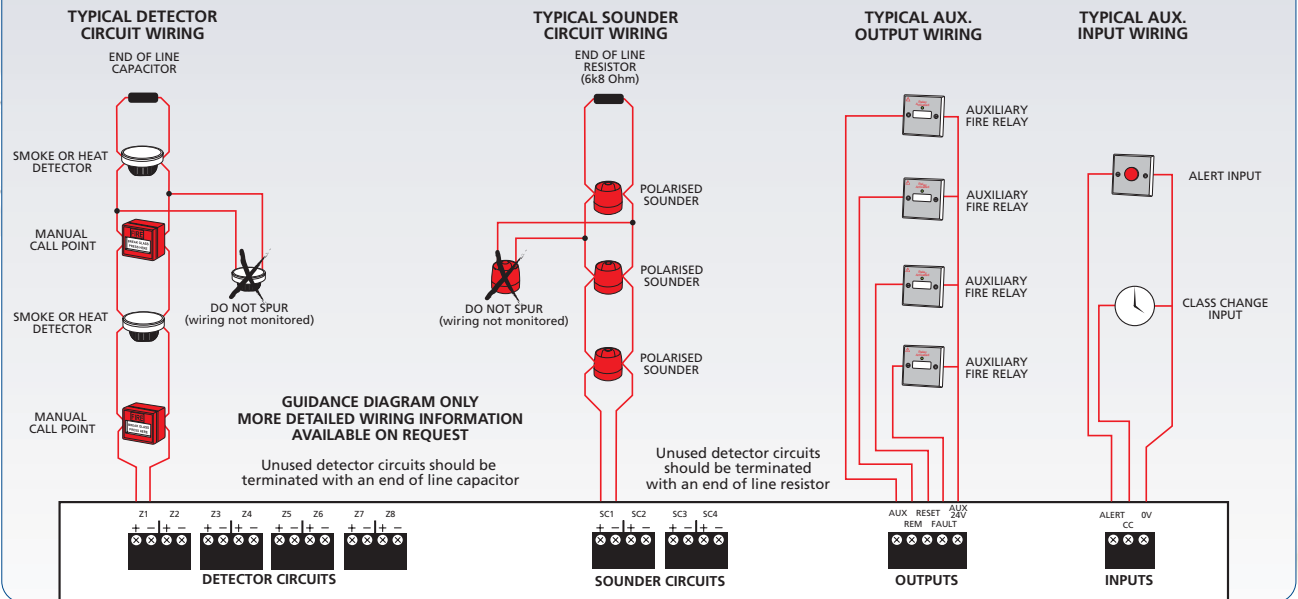
Indicators

External indicators	General fire; Zone fire; Zone fault; Zone disabled; Zone test; Supply present; Remote output activated; Remote output status; Test; Accessed; General disablement; Fault output status; General fault; System fault; Repeater fault (not available on CFPE); System status; Sounder status; Power supply fault; Auxiliary output status; Output delays (not available on CFPE).
Internal indicators	System fault (distinguishes between 'watchdog', 'site memory' and 'phase lock loop' faults); Zone fault (distinguishes between open circuit and short circuit faults); Hazardous voltages present; Repeater fault (indicates which repeaters, if fitted, are faulty - not available on CFPE)

Dimensions

Physical size	Size = 380 x 235 x 96mm approx.
Weight	1.75kg (without batteries)

TYPICAL WIRING



CFP STANDARD EN54 FIRE PANELS & ANCILLARIES

CFP702-4	CFP standard 2 zone panel, code entry version, does not extend
CFP702-4K	CFP standard 2 zone panel, keyswitch version, does not extend
CFP704-4	CFP standard 4 zone panel, code entry version, does not extend
CFP704-4K	CFP standard 4 zone panel, keyswitch version, does not extend
CFP708-4	CFP standard 8 zone panel, code entry version, does not extend
CFP708-4K	CFP standard 8 zone panel, keyswitch version, does not extend
CFP760	CFP 8 zone repeater panel, up to 8 per system, code entry version
CFP760K	CFP 8 zone repeater panel, up to 8 per system, keyswitch version
CFP761	CFP network driver card (one required per repeater system, fit at main)
CFP762	CFP relay output card (provides reset, fault, aux & remote relay outputs)
CFP763	CFP relay output per zone card (as CFP762 plus 8 output per zone relays)

CFP ECONOMY EN54 FIRE PANELS

Include all CFP standard panel features except coincidence, zone delay and non-latching zone facilities. CFP economy panels are not compatible with CFP repeaters or CFP relay output cards

CFP702E-4	CFP economy 2 zone panel, code entry version, does not extend
CFP702E-4K	CFP economy 2 zone panel, keyswitch version, does not extend
CFP704E-4	CFP economy 4 zone panel, code entry version, does not extend
CFP704E-4K	CFP economy 4 zone panel, keyswitch version, does not extend
CFP708E-4	CFP economy 8 zone panel, code entry version, does not extend
CFP708E-4K	CFP economy 8 zone panel, keyswitch version, does not extend

CFP LPCB APPROVED EN54 FIRE PANELS

Include all CFP standard panel features except coincidence & non-latching zone facilities.

CFP702-4/LPCB	CFP 2 zone panel, LPCB approved to EN54-2/4, does not extend, code entry
CFP704-4/LPCB	CFP 4 zone panel, LPCB approved to EN54-2/4, does not extend, code entry
CFP708-4/LPCB	CFP 8 zone panel, LPCB approved to EN54-2/4, does not extend, code entry



LPCB Ref. 176a
to BS EN 54 pts 2 & 4

Solid State Security Limited
 Hartfield House
 54 Chorley Road
 Hilldale
 Parbold, Wigan WN8 7AS
 Tel: 01257 463018
 Fax: 01257 462038



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The manufacturer operates a policy of continuous improvement and we reserve the right to alter product specifications at our discretion and without prior notice. Approved Document No. DFS0380434 Rev 2

24V POWER SUPPLIES

A range of cost-effective, robust and attractively-designed 24V d.c. power supplies suitable for use in fire alarm systems of all sizes.

Four units are available, a 250mA door release PSU, a 1A general purpose PSU, a 2A door release PSU and an EN54 part 4 compliant 3A switch-mode PSU.



BF375P 250mA UNREGULATED DOUBLE GANG DOOR RELEASE PSU

- Supplied on a compact double gang plate
- Provides a continuous output of 24V 250mA d.c.
- Ideal for locating alongside any single/double fire doors requiring door retaining magnets
- Three trigger inputs - trigger, hold off and manual button
- Also available as part of the BF375PK door retainer and PSU kit

BF375M 1A REGULATED GENERAL PURPOSE PSU

- A general purpose mains to regulated 27.6V d.c. power supply c/w on-board relay
- Two trigger inputs - trigger and hold off
- Sophisticated fault monitoring
- Very low current consumption
- Capable of charging 2.1Ahr back up batteries

BF377 2A UNREGULATED DOOR RELEASE PSU

- Designed to provide continuous d.c. power for a 24V door release magnet system
- Two trigger inputs
- Supplied in a robust metal cabinet

BF368EN REGULATED EN54-4 PSU

- Efficient switch mode design
- Provides a continuous output of 27.6V 3A d.c.
- Very low current consumption allows >72 hours standby (dependent on battery capacity and load)
- Includes two isolated input triggers (trigger and hold off), one unisolated input and a fault relay output.
- Capable of charging 2 to 10 Ahr batteries in line with the requirements of EN54-4
- Very low opto-isolated external hold off allows multiple units to be failsafe connected to a single fire panel without compromising stand by time
- Ideal for door release, plant shutdown and sounder circuit extender systems, etc.



KEY FEATURES & TECHNICAL SPECIFICATIONS

BF375P 250mA UNREGULATED DOUBLE GANG DOOR RELEASE PSU (1)

Supplied on a compact double gang plate, the BF375P provides a continuous output of 24V 250mA d.c. and is ideal for locating alongside single or double doors which require door retaining magnets. Three trigger methods are available, (a) trigger and (b) hold off (both of which require a signal voltage of 5-27V d.c. 10mA) and (c) manual button release. Once triggered, the PSU's output voltage is removed causing any door release magnets connected to it to de-energise. The BF375P is designed specifically for use as a door release PSU and is not suitable for battery charging or any other purpose. Also available as part of the BF375PK door retainer and PSU kit (5).

MAINS SUPPLY VOLTAGE 230V a.c. \pm 10% 50/60 Hz
 SUPPLY OUT 21-28V d.c; 250mA
 MAX. NO. OF RETAINERS 5 rated @ 50mA or 8 rated @ 30mA
 APPROX. DIMENSIONS (WxHxD) & WEIGHT 147 x 87 x 39mm; 480g (24mm protrusion depth in back box)

BF375M 1A REGULATED GENERAL PURPOSE PSU (2)

The BF375M is a general purpose mains to regulated 24V d.c. power supply unit complete with on-board relay. It has three indicators (mains on, battery/power supply fault and output triggered) and two inputs (trigger and hold off). Both inputs require a signal voltage of 5-27V d.c. 1mA and can be used to control the PSU's internal relay to switch its output voltage on or off. This and the PSUs sophisticated fault monitoring function (battery faults, mains faults and ruptured fuse faults are all reported) makes the BF375M one of the most versatile 1A power supplies available. Optional back-up batteries can be fitted to maintain the PSU's output and the unit's very low current consumption makes it ideal for large installations where multiple units can be connected to one system without compromising the battery stand-by time of the host panel. Siting each PSU locally to its load can provide considerable cost savings on wiring, reduce the risk of voltage drop, increase flexibility and lessen the risk of total system failure.

MAINS SUPPLY VOLTAGE 230V a.c. \pm 10% 50/60 Hz
 SUPPLY OUT 27.6V d.c., 1A
 APPROX. DIMENSIONS (WxHxD) & WEIGHT..... 271 x 200 x 70mm; 2.3Kg (without batteries)

BF377 2A UNREGULATED DOOR RELEASE PSU (3)

The BF377 is designed to provide continuous d.c. power for a 24V door release magnet system controllable from a fire alarm control panel. For automatic release, the power supply requires a signal voltage of 18-30V d.c. 30mA. Manual release can also be achieved via a set of contacts using, for example via an external timer, in order to shut the doors automatically at a predetermined time. The BF377 does not have a battery back-up facility.

MAINS SUPPLY VOLTAGE 230Va.c. \pm 10% 50/60Hz
 SUPPLY OUT 22-29Vd.c., 2A
 MAX. NO. OF RETAINERS 40 rated @ 50mA or 66 rated @ 30mA
 APPROX. DIMENSIONS (WxHxD) & WEIGHT 405 x 267 x 92mm; 4.0Kg

BF368EN 3A REGULATED EN54-4 PSU (4)

Supplied in a light grey metal back box with plastic lid, the BF368EN's efficient switch mode design allows it to provide a continuous output of 3A at 185-265 V a.c. Ideal for a variety of applications (door release systems, plant shutdown, sounder extender systems, etc), it offers very low current consumption (allowing in excess of 72 hours standby dependent on battery capacity and load) and is capable of charging 2 to 10 Ahr batteries in line with the requirements of EN54. Its very low opto-isolated external hold off allows multiple units to be failsafe connected to a single fire panel without compromising the panel's stand by time. Other features include a local switch input and a fault output via a normally energized relay SPCO (fault monitoring includes battery fault, mains supply fault and ruptured fuse). Battery monitoring may be disabled when not required.

MAINS SUPPLY VOLTAGE 230Va.c. \pm 10% 50/60Hz
 SUPPLY OUT 27.6V d.c; 3A (reduce to 2.5A if batteries are fitted)
 APPROX. DIMENSIONS (WxHxD) & WEIGHT Back Box 412 x 250 x 80mm; Lid 439 x 274 x 7mm; 2.95Kg (without batteries)