

CFP

range

NOW WITH
KEYPAD/KEYSWITCH ENTRY
IMPROVED USER INTERFACE
TWO ON-BOARD RELAYS



2 to 8 zone
EN54
conventional fire
alarm panels



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



You're safe with



2-8 Zone EN54 Conventional Fire Alarm Panels

CFP range

LPCB certified to the latest revisions of EN54 parts 2 and 4, our new-look super-enhanced CFP conventional fire panel offers an array of user and installer-friendly features at a very competitive price.

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, on-board fire and fault relays and combined keypad/keyswitch entry.

A wide range of engineering functions are also provided including selectable zone delays, coincidence and non-latching zone facilities. Comprehensive test and fault finding facilities are also provided.



The CFP's LPCB stamp of approval demonstrates that the panel has been tested and certified as being compliant with EN54 parts 2 and 4 by the Loss Prevention Certification Board, one of the most-respected independent approval bodies in the world.

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

CFP features

- ▶ LPCB certified to the latest versions of EN54 Parts 2 and 4
- ▶ Intuitive user-friendly interface with colour-coded buttons and combined keypad/keyswitch entry to access level 2
- ▶ 2, 4 or 8 zone circuits (dependent on model purchased)
- ▶ Four conventional sounder circuits
- ▶ Integral 1.5A EN54-4/A2 compliant switch mode PSU
- ▶ Wide range of engineering functions including zone test, coincidence*, zone delay and non-latching zones*
- ▶ Two on-board relays (Fire and Fault)
- ▶ Two open-collector outputs (Remote and Reset)
- ▶ 'Class change' and alert inputs
- ▶ Installer-friendly design accommodates easy first fix and straightforward maintenance
- ▶ Attractive flush or surface mountable plastic lid and enclosure - no bezel required
- ▶ Low quiescent current
- ▶ Multiple indicators
- ▶ End of line units included (one per zone)
- ▶ Ancillary system expansion connections provided for up to eight two-wire repeaters (one CFP761 network driver card required per system) and optional CFP relay boards
- ▶ Space for two x 12V 3.2Ah VRLA batteries

LPCB Certified Economy CFP panels (without on-board relays, system expansion connections, coincidence, delay or non-latching zone facilities) are also available - see order codes on page 4

CFP702-4, CFP704-4, CFP708-4 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 @ 230Vac (ImaxA = 146mA) |
| Quiescent current | 25mA (Mains failed, internal sounder active, power supply & general fault lights lit) |
| 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 3.2Ah VRLA connected in series (use YUASA NP3.2-12 for LPCB approved systems) Minimum battery size = 1.2Ah |
| 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

| | |
|---|--|
| Number of circuits/zones | 2 (CFP702-4), 4 (CFP704-4) or 8 (CFP704-8) |
| Max cable length per circuit | 500 metres |
| Cable type | Fire resistant screened cable, minimum conductor size 1mm ² |
| Connector blocks | Plug-on type, largest acceptable conductor size 1.5mm ² |
| Line monitored for open circuit and short circuit | YES - DC monitoring |
| Line monitored for detector removal | YES - end of line monitoring device modules provided |
| Max. allowable impedance (each conductor) | 20 Ohm |
| Max. cable capacitance | 0.27uF |
| Call point resistor value | 470 to 680Ω |
| Max. number of smoke/heat detectors per zone | 25 |
| Max. combined number of detectors & call points | 32 per zone |

Sounder Circuit Specification

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

Auxiliary Relay Outputs

| | |
|------------------------------|---|
| Aux. Fire relay output (AUX) | Voltage-free single pole changeover; Max switching current 1A; Max. switching voltage 30Vdc |
| Fault relay output (FAULT) | Voltage-free single pole changeover; Max switching current 1A; Max. switching voltage 30Vdc |

Auxiliary Open Collector Outputs

| | |
|---|---|
| Reset output (RESET) | Non-monitored open collector type; Active during reset cycle; Max. sink current 30mA; Max. open circuit voltage 27Vdc |
| Remote output (REM) | Non-monitored open collector type; Active during any unsilenced fire condition (provided all relevant delays have expired); Max. sink current 30mA; Max. open circuit voltage 27Vdc |
| 24V aux power output (for use with the above) | Output protected by a resettable 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 level |
| Authorised user controls (access level two) | Silence alarm sounders; Activate alarm sounders; Reset the system; Test the lamps; (Entry via keypad code or keyswitch); Disable/enable zones; Disable/enable fault output; Disable/enable remote output; Disable/enable sounders; Disable/enable auxiliary output; Disable/enable output delays |
| Engineer controls (access level three) | Program coincidence (double knock); Invoke one man walk test; Program delays; Set up zones for non-latching operation; Program sounders to resound (or not resound) when a new zone enters alarm; Enter fault diagnostic facilities |

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; System status; Sounder status; Power supply fault; Auxiliary output status; Output delays |
| 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) |

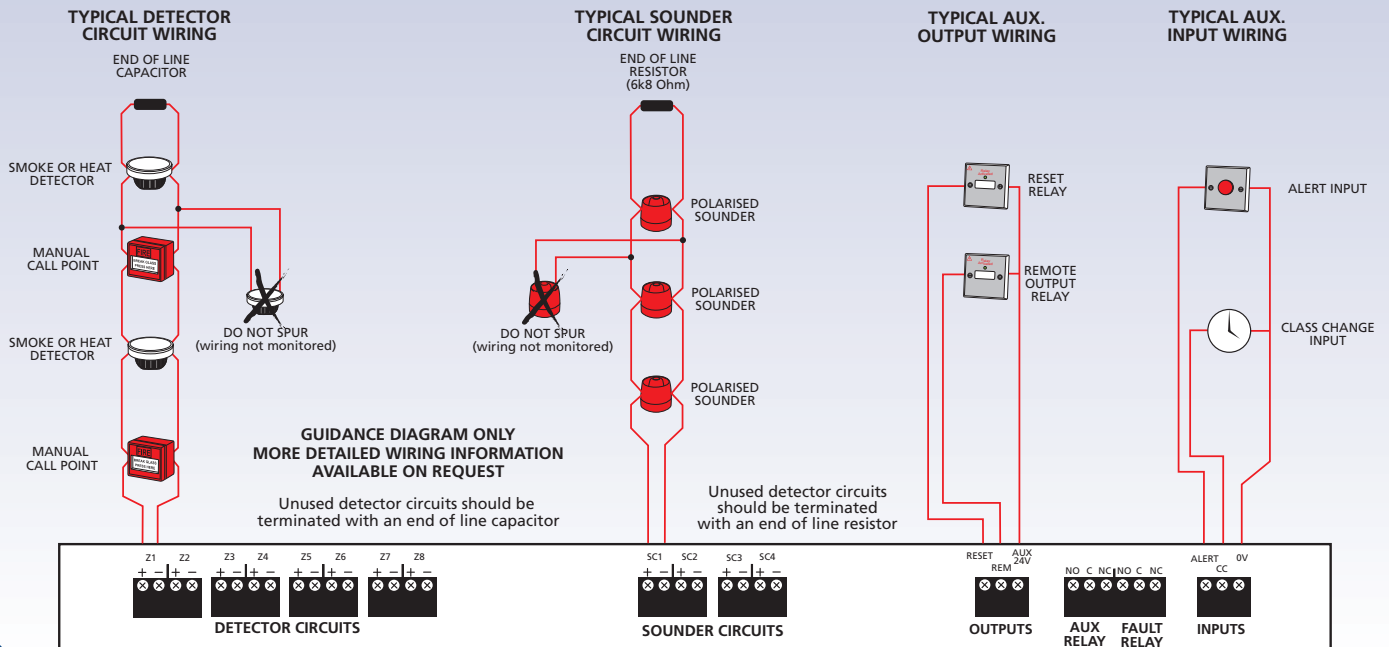
Dimensions

| | |
|------------------------|--|
| Physical size / Weight | Size = 380 x 235 x 96mm approx. / 1.75kg (without batteries) |
| Construction | Plastic lid and base |
| Enclosure finish | RAL7035 textured |
| IP rating | IP30 |

Operating conditions

The components are selected to operate within their specification when the environmental conditions outside the enclosure comply with class 3k3 of IEC 721-3-3:1978. Temperature range: -5 to +40°C. Maximum relative humidity: 95%

TYPICAL WIRING



CFP STANDARD FIRE PANELS & ANCILLARIES

| | |
|----------|--|
| CFP702-4 | CFP Standard 2 zone panel, keypad/keyswitch entry, does not extend, LPCB certified to EN54-2/4 |
| CFP704-4 | CFP Standard 4 zone panel, keypad/keyswitch entry, does not extend, LPCB certified to EN54-2/4 |
| CFP708-4 | CFP Standard 8 zone panel, keypad/keyswitch entry, does not extend, LPCB certified to EN54-2/4 |
| CFP760 | CFP 8 zone repeater panel, up to 8 per system, keypad/keyswitch entry |
| CFP761 | CFP network driver card (one required per repeater system, fit at main) |
| CFP762 | CFP relay output card (provides reset, fault, aux fire & remote relays) |
| CFP763 | CFP relay output card (provides 12 relays - reset, fault, aux fire & remote relays plus 8 output per zone relays) |
| CFP764 | CFP relay output card (provides 8 output per zone relays) |
| CFP765 | CFP relay output card (provides 4 output per zone relays) |
| CFP766 | CFP relay output card (provides 2 output per zone relays) |
| BF362 | Barrier interface unit (allows a CFP zone circuit to be connected to up to 10 intrinsically safe detectors and call points via a Zener barrier (not supplied)) |

CFP ECONOMY FIRE PANELS

Include all CFP standard panel features **except** onboard relays, system expansion connections, coincidence, delay and non-latching zone facilities. Economy panels **are not** compatible with CFP repeaters or CFP relay boards.

| | |
|-----------|---|
| CFP702E-4 | CFP Economy 2 zone panel, keypad/keyswitch entry, does not extend, LPCB certified to EN54-2/4 |
| CFP704E-4 | CFP Economy 4 zone panel, keypad/keyswitch entry, does not extend, LPCB certified to EN54-2/4 |
| CFP708E-4 | CFP Economy 8 zone panel, keypad/keyswitch entry, does not extend, LPCB certified to EN54-2/4 |



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

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