



Conventional Fire Alarm Products

Conventional Fire Panels



Fully compliant with EN54 parts 2 and 4, Orbik's 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.

Economy EN54 Fire Panels Ordering Codes & Information

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

Cat No	Description	Sounder Circuits	Maximum Battery Type and Size†
FP-038E	Economy 2 zone panel, code entry version (does not extend)	4	2 x 12V 3.3Ah VRLA
FP-038EK	Economy 2 zone panel, keyswitch version (does not extend)	4	2 x 12V 3.3Ah VRLA
FP-039E	Economy 4 zone panel, code entry version (does not extend)	4	2 x 12V 3.3Ah VRLA
FP-039EK	Economy 4 zone panel, keyswitch version (does not extend)	4	2 x 12V 3.3Ah VRLA
FP-040E	Economy 8 zone panel, code entry version (does not extend)	4	2 x 12V 3.3Ah VRLA
FP-040EK	Economy 8 zone panel, keyswitch version (does not extend)	4	2 x 12V 3.3Ah VRLA

† Batteries to be ordered separately (see page 17)

Standard EN54 Fire Panels & Ancillaries Ordering Codes & Information

Cat No	Description	Sounder Circuits	Maximum Battery Type and Size†
FP-038	Standard 2 zone panel, code entry version (does not extend)	4	2 x 12V 3.3Ah VRLA
FP-309	Standard 2 zone panel, keyswitch version (does not extend)	4	2 x 12V 3.3Ah VRLA
FP-039	Standard 4 zone panel, code entry version (does not extend)	4	2 x 12V 3.3Ah VRLA
FP-310	Standard 4 zone panel, keyswitch version (does not extend)	4	2 x 12V 3.3Ah VRLA
FP-040	Standard 8 zone panel, code entry version (does not extend)	4	2 x 12V 3.3Ah VRLA
FP-311	Standard 8 zone panel, keyswitch version (does not extend)	4	2 x 12V 3.3Ah VRLA

† Batteries to be ordered separately (see page 17)

Ancillary Ordering Codes & Information

Cat No	Description
FPR-006	8 zone repeater panel, up to 8 per system, code entry version
FPR-006K	8 zone repeater panel, up to 8 per system, keyswitch version
FPA-226	Network driver card (1 required per repeater system, fit at main panel)
FPA-227	Relay output card (provides reset, fault, aux & remote relay outputs)
FPA-228	Relay output per zone card (as FPA-227 plus 8 output per zone relays)

Panel Dimensions & Weight

380mm length x 235mm width x 96mm depth; 1.75kg weight*

* Excluding batteries

Which Panel?

Panel Type	Zone delay facility	Non-latching zones facility	Coincidence (double-knock) facility	Zone test facility	Fault diagnostic facilities	Ancillary connections for system expansion
Standard Panels	✓	✓	✓	✓	✓	✓
Economy Panels	✗	✗	✗	✓	✓	✗
LPCB Panels*	✓	✗	✗	✓	✓	✓

* LPCB approved panels are available upon request



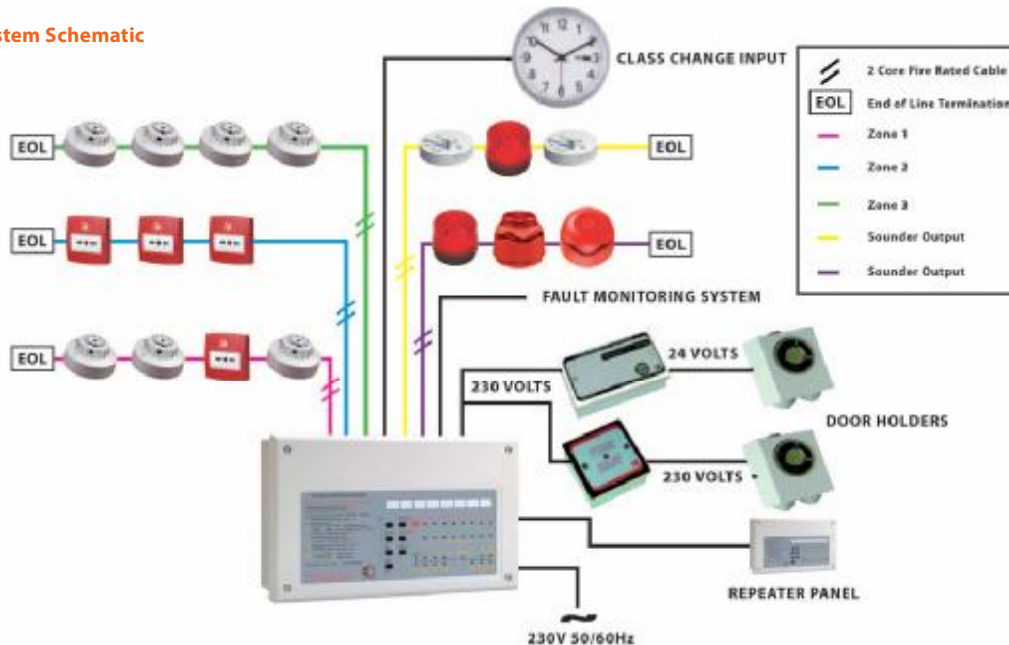


Conventional Fire Panels

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
- Auxiliary remote, auxiliary fire, fault and reset outputs
- Ancillary connections provided for up to 8 two-wire repeaters (one FPA-226 network driver card required per system) and optional relay boards. Ancillary connections are not provided on economy panels
- 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
- 'Class change' and alert inputs
- Wide range of engineering functions including (dependent on model purchased) zone test, coincidence, zone delay and non-latching zones

Technical System Schematic



Technical Information

Power Supply

Mains Supply Voltage:	230V 50/60Hz
Internal Power Supply:	27V DC Nominal
Total Output Current Limited To:	1.5A
Supply/Battery Charger Monitor:	Yes
Battery Disconnection Monitor:	Yes
Mains Fuse:	240V 1A HRC Ceramic 20mm
Battery Fuse:	1.6A F 20mm Compliant with IEC

Detector Circuits

Cable Type:	Min 1mm Fire Resistant (Screened)
Connector Blocks:	Plug-On Type, Conductor Size 1.5mm
Max Cable Length per Circuit:	500 Metres
Open/Short Circuit Monitored:	Yes
Detector Removal Monitored:	Yes
Maximum Allowable Impedance:	20Ω
Maximum Cable Capacitance:	0.27mF
Call Point Resistor Value:	470R-680Ω
Max No of Smokes/Heats Per Zone:	25
Max No of Detectors/Call Points Per Zone:	32 Per Zone

General

Cable Entry Knock-Outs:	Top and Back
Operating Temperature:	+5°C to +35°C
Relative Humidity:	5% to 95% Non-Condensing

Sounder Circuits

Cable Type:	Min 1mm Fire Resistant (Screened)
Connector Blocks:	Plug-On Type, Conductor Size 1.5mm
End of Line Resistor Value:	6800 5% Tol. 0.25W
Open/Short Circuit Monitored:	Yes
Alarm Voltage:	27V DC Max 20V Min
Max Cable Length per Circuit:	500 Metres
Max Total Sounder Output:	4 x 200mA = 800mA
Max No of Bells (At 25mA):	32 (Polarised & Suppressed)
Max No of Sounders (At 20mA):	40 (Polarised)

Auxiliary Outputs

Type:	Non Monitored Open Collector Transistor
Max Sink Current:	30mA Each
Max Open Circuit Voltage:	27Vdc
Reset Output:	Active During Reset Cycle
Remote Output:	Active During any Unsilenced Fire Condition
Auxiliary Output:	Active During any Fire Condition
Fault Output:	Active when no Faults are Present
24V Aux Power Output:	Output Protected by a Resettable Fuse

Auxiliary Inputs

Class Change:	0V Trigger Non-Latching
Alert:	0V Trigger Non-Latching (Max Input Voltage 27V)

