



Two-Wire Conventional Fire Panel

Orbik's two-wire fire panel is designed to work with Apollo's AlarmSense® range of detectors, call points and sounders.

Most conventional fire systems are designed to work with two pairs of wires per zone: one pair for detection devices such as smoke detectors, heat detectors and manual call points; the other for alarm devices such as bells, sounders or strobes. By using different voltage bands for quiescent and alarm states, AlarmSense® components can be connected to the same pair of supply wires.

When powered and controlled by the two-wire fire panel, this reliable technology takes all the complexity out of fire alarm system design, leading to quicker, less expensive and more flexible installation.



Research shows an AlarmSense® two-wire system can achieve a 20-25% reduction of labour over a standard four wire conventional system.

Features

- Designed to comply with EN54 parts 2 and 4
- Available with 2, 4 or 8 AlarmSense® zone circuits
- Installer-friendly design accommodates easy first fix and maintenance
- Auxiliary remote, fire, fault and reset outputs
- 'Class change' and alert inputs
- Four conventional sounder circuits (for use with non-AlarmSense® sounders)
- Low quiescent current - for extended standby times with small batteries
- Intuitive user-friendly interface
- Attractive flush or surface mountable plastic lid and enclosure
- Integral 1.5A switch mode power supply unit
- Comprehensive fault diagnostic facilities
- Push button access code entry to a wide range of engineering functions including zone delay, non-latching zones, zone test and coincidence (double knock)
- Ancillary connections provided for up to eight two-wire repeaters and optional relay boards

Two-Wire Conventional Fire Panel Ordering Codes & Information

Cat No	Description	Dimensions	Weight	Maximum Battery Type and Size†
FP-041	2 Zone 2 Wire Fire Panel	380mm W x 235mm H x 96mm D	1.75Kg (without batteries)	2 x 12V 3.3Ah VRLA
FP-042	4 Zone 2 Wire Fire Panel	380mm W x 235mm H x 96mm D	1.75Kg (without batteries)	2 x 12V 3.3Ah VRLA
FP-043	8 Zone 2 Wire Fire Panel	380mm W x 235mm H x 96mm D	1.75Kg (without batteries)	2 x 12V 3.3Ah VRLA

† Batteries to be ordered separately (see page 17)

Technical Information

Power Supply

Mains supply Voltage:	230V ± 10% 50/60Hz
Internal power supply:	27V d.c. nominal
Total output current limited to:	1.5A
Supply/battery failure monitored:	Yes
Deep discharge battery protection:	Yes
Max battery size and type:	2 x 12V 3.3Ah VRLA connected in series
Mains fuse:	240V 1A HRC ceramic 20mm compliant with IEC
Battery fuse:	1.6A F 20mm compliant with IEC

Zone Circuit

* For use with AlarmSense® devices only

Number of circuits:	2 (FP-041); 4 (FP-042); 8 (FP-043)
Max cable length per circuit:	500 metres
Line monitored for faults:	Yes
Max allowable resistance:	20 Ohms
Max Cable Capacitance (per circuit):	0.27µF
Max detectors/call points per zone:	25

Conventional Sounder Circuit

* For use with non-AlarmSense® sounders

Number of circuits:	4
Max total sounder output current:	4 x 200mA = 800mA
Max no of bells @ 25mA:	32
Max no of sounders @ 20mA:	40 (sounders must be polarised)

