

FIRE ALARM CONTROL PANEL



02-18 ZONE CONVENTIONAL PANEL

- Fully compliant with PNC-1004
- Lift-off lid for easy first fix and maintenance
- Two conventional sounder circuits.
- Built-in 24V power supply and battery charger
- Optional head removal monitoring facility
- Fault buzzer mute facility
- Space available for the rated capacity of VRLA batteries
- Short circuit = fire facility selectable on a zone by zone basis - ideal for retro-installations
- One man walk test and zone isolate facility

Mains supply voltage	230V a.c. ± 10% 50/60 Hz	230V a.c. ± 10% 50/60 Hz	230V a.c. ± 10% 50/60 Hz	230V a.c. ± 10% 50/60 Hz
Internal power supply	27V d.c. nominal	27V d.c. nominal	27V d.c. nominal	27V d.c. nominal
Total output current limited to	400mA @ 230 V a.c.	800mA @ 230 V a.c.	1.4A @ 230 V a.c.	3A @ 230 V a.c.
Supply and battery charger monitored for failure	Yes	Yes	Yes	Yes
Batteries monitored for disconnection and failure	Yes	Yes	Yes	Yes

Detector Circuit Specification

Number of circuits	1	2 (FF382/CON) 4 (FF384/CON)	4 (FF384-2/CON, extendable to 6) 8 (FF388/CON)	8 (extendable to 10, 12 or 14)
Connector blocks	Line monitored for open and short circuit faults			
	Yes	Yes	Yes	Yes
Line monitored for head out/detector removed faults	Yes - if optional BF378 or BF378M End of Line Monitoring unit (not supplied) is fitted in place of end of line resistor			
End of line resistor value (supplied)	6800 ½ 5% Tol. 0.25W	6800 ½ 5% Tol. 0.25 W	6800 ½ 5% Tol. 0.25 W	6800 ½ 5% Tol. 0.25 W
Detector continuity diodes	Silicon 1N4001 or Schottky type (required if BF378 or BF378M End of Line Monitoring Units fitted to show head out faults)			
Call point resistor value (not supplied)	470 - 680 ½ 0.5 W	470 - 680 ½ 0.5 W	470 - 680 ½ 0.5 W	470 - 680 ½ 0.5 W
Max. number of detectors per zone	20 (max detector current 2mA)	20 (max detector current 2mA)	20 (max detector current 2mA)	20 (max detector current 2mA)
Max. number of manual call points per zone	No limit	No limit	No limit	No limit

Sounder Circuit Specification

Number of circuits	2	2	2	2
Connector blocks	Heavy duty Niglon-type, largest acceptable conductor size 2.5mm ²			
End of line resistor value	6800 ½ 5% Tol. 0.25 W	6800 ½ 5% Tol. 0.25 W	6800 ½ 5% Tol. 0.25 W	6800 ½ 5% Tol. 0.25 W
Line monitored for open and short circuit faults	Yes	Yes	Yes	Yes
Outputs fused at	400mA	1A	1A	1.6A
Max. total output current to all outputs	400mA	800mA	1.4A	3A
Max. number of bells at 25mA	16	32	56	120
Max. number of sounders at 20mA	20	40	70	150
Volt free relay contacts (active when sounders active)	n/a	Yes, 1A 30V d.c. max	Yes, 1A 30V d.c. max	Yes, 1A 30V d.c. max

Auxiliary Inputs / Outputs

Available via optional expansion looms (not supplied)	Class change input, fire output and fault output via EFPX loom	Class change input, zone 1 & zone 2 fire outputs, fault output and reset output via FPX loom. Self-contained fire, fault & sounder delay relay modules are also available (1 per panel instead of FPX loom)
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Fuses (to IEC - EN60127 Pt2)

Mains terminal block	125mA T 20mm (F1, F2)	200mA T 20mm 1A F 20mm (F2, F3)	400mA T 20mm 1A F 20mm (F2, F3)	630mA T 20mm 1.6A F 20mm (F2, F3)
Sounder outputs 400mA F 20mm	n/a	1A F 20mm (F4)	1A F 20mm (F4)	1A F 20mm (F4)
Auxiliary output	1A F 20mm (F3)	1.6A F 20mm (F1)	1.6A F 20mm (F1)	3A F 20mm (F1)
Battery fuse				

Panel Indicators and Controls

External indicators	Mains On; Zone Fire; Zone Fault; Sounder Fault; Battery/Power Supply Fault	
Internal indicators	O/C Fault; S/C Fault	O/C Fault; S/C fault; Zone Isolated; Engineer Test Selected
External controls (keyswitch operated)	Reset; Silence Alarm/Fault Sounders;	Reset/ Resound/Test Zone Lamps; Evacuate; Silence Alarm Sounders; Evacuate Silence Fault Sounders
Internal controls	Revert to short circuit = fire; Revert to short circuit = fire; One man detector test; Zone isolate	