



EN54-2 and EN54-4  
CERTIFIED  
1328-CPR-0224



## ORION

### Conventional Fire Detection Panel

The ORION conventional control panel range offers a creatively designed and visually pleasing solution for smaller cost-conscious projects demanding simplicity of operation. Versions available include 2, 4 and 8 zone panels and two styles of repeater.

The **outstanding programmable features** included in this panel range contradict the facilities commonly available in this type of panel and include: programmable time delay by zone, Day/Night mode, selectable non-latching zones and coincidence detection.

**Operation is extremely intuitive**, offering simple control and one-button disablement facilities, as well as the one man test mode which provides simple and efficient testing of the system.

**Advanced configuration** solutions include the following: a dedicated RS232 communication interface allowing connection of up to 4 remote repeater panels, addressable loop interface modules and multiplexed zonal output relays; giving one of the most highly advanced levels of system integration and compatibility existing on the market at this level.

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## Key Features

- ▶ 2, 4 and 8 Zone non-expandable control panels
- ▶ Up to 32 conventional smoke and/or heat detectors per Zone
- ▶ Active End of Line monitoring
- ▶ Programmable non-latching Zones
- ▶ Delay timer programmable on/off per Zone
- ▶ Coincidence programmable for adjacent Zones
- ▶ One man test
- ▶ Supervised auxiliary 24 volt output
- ▶ 2 Supervised/ monitored sounder circuits
- ▶ 3 Remote inputs used for activation of Class Change, Day/Night mode, and Reset
- ▶ 2 Relay outputs fire and fault
- ▶ Fully EN54 part 2 and 4 compliant
- ▶ Repeater output
- ▶ Multiplexed output for LEDs and additional relay outputs per zone (GFE-MPX-REL)
- ▶ Multiplexed output for sounders per zone (GFE-MPX-SNDR)
- ▶ Addressable Loop Interface card (GFE-ADLI)

## TECHNICAL SPECIFICATIONS

SUPPLY SPECIFICATION	
PRIMARY SUPPLY VOLTAGE- IN	230 +10% -15% V AC
PRIMARY SUPPLY VOLTAGE- OUT	28.5 V DC nominal
PRIMARY SUPPLY CURRENT-OUT	1.7 A @ 28.5 V DC nominal (max.)
SECONDARY SUPPLY VOLTAGE	21.0 min. - 27.2 max. V DC - BAT charger o/p 28 V DC
SECONDARY SUPPLY CURRENT OUTPUT	1.1 Amp Maximum @ 20°C
INTERNAL BATTERY CAPACITY - MAXIMUM	2 x 12V x 7Ah Sealed VRLA Lead Acid Batteries
MAINS FUSE	4 A -250 V Slow Blow - 20 mm
BATTERY FUSE	1.6 Amp - Resettable
DETECTION CIRCUIT SPECIFICATION	
NUMBER OF CIRCUITS	2,4 or 8
ZONE CURRENT - QUIESCENT / ALARM	4 mA / 60 mA - Maximum
MAX. CABLE RESISTANCE / CAPACITANCE	40 Ohms / 0.470 uF
END OF LINE MONITORING	Active EOL - Capacitor
Bs5839 DETECTOR REMOVAL COMPLIANT	YES provided diodes are fitted to detector base
DEVICES PER ZONE	32 Maximum - EN54 pt.2
ALARM RESISTANCE VALUE	270 - 1000 Ohms
SOUNDER CIRCUIT SPECIFICATION	2 - 500mA max. current drive per circuit - fully monitored
ALARM VOLTAGE / END OF LINE RESISTOR	27.5 V DC Nominal / 10 K Ohms - 1/4 Watt
AUXILIARY OUTPUTS SPECIFICATION	
AUXILIARY RELAY OUTPUT	1 Fire (COM-NC-NO) - 1 Fault (COM-NC) non-supervised
RELAY CONTACT RATING	50 V DC - 1 Amp resistive loads
REMOTE INPUT SPECIFICATION	
EVACUATION (CC) - DAY/ NIGHT MODE	Non-Latching - Voltage free contact
RESET	Non-Latching - Voltage free contact
MECHANICAL & OPERATING SPEC.	
MAX. HUMIDITY	95% RH Non-Condensing
OPERATING TEMPERATURE	-10°C to 50°C
WEIGHT	1.7 Kg - 7 Kg (inc. 2 x 7 AH 12 V bat.)
DIMENSIONS	272 (W) x 404 (H) x 107 (D) mm
COLOUR	White or Red
ORDER CODE	
ORION 2	2 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL
ORION 4	4 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL
ORION 8	8 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL