



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.

## ORION

## 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                           |  |
| <b>ORION 2</b>                       | 2 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL          |
| <b>ORION 4</b>                       | 4 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL          |
| <b>ORION 8</b>                       | 8 ZONES CONVENTIONAL FIRE DETECTION CONTROL PANEL          |