

ORION-PLUS

Key Features

- ▶ 8 Zone expandable control panels with a maximum of 16 zones
- ▶ Up to 32 conventional smoke and/or heat detectors per zone
- ▶ Zone expansion via 4 zone expansion module (GFE-EXP-MOD)
- ▶ Active or Resistive End of Line monitoring
- ▶ Programmable non-latching zones
- ▶ Programmable on/off delay timer per zone
- ▶ Programmable coincidence for adjacent zones
- ▶ One man test
- ▶ Supervised auxiliary 24 volt output
- ▶ 2 Supervised/ monitored sounder circuits
- ▶ 3 Programmable Remote Inputs
- ▶ 2 Relay outputs 1 fire and 1 fault
- ▶ Fully EN54-2 and EN54-4 compliant
- ▶ Repeater output using RS232, RS485, Fibre Optic and TCP/IP

TECHNICAL SPECIFICATIONS

| SUPPLY SPECIFICATION | |
|--------------------------------------|---|
| PRIMARY SUPPLY VOLTAGE - IN | 90 to 265 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 12 V x 7 Ah 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 | 16 Max. |
| 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 |
| BS-5839 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 - 500 mA 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 | |
| PROGRAMMABLE INPUT 1 | Non-Latching - Voltage free contact |
| PROGRAMMABLE INPUT 2 | Non-Latching - Voltage free contact |
| MECHANICAL & OPERATING SPEC. | |
| HUMIDITY | Max 95% RH Non-Condensing |
| OPERATING TEMPERATURE | -10°C to 50°C |
| WEIGHT | 2 Kg without batteries, 7 Kg with batteries (2 x 12 V x 7Ah) |
| DIMENSIONS | 404 (L) x 272 (W) x 107 (H) mm |
| COLOUR | White or Red |
| ORDER CODE | |
| ORION-PLUS 8 | 8 ZONES EXPANDABLE CONVENTIONAL FIRE DETECTION CONTROL PANEL |
| ORION-PLUS 12 | 12 ZONES EXPANDABLE CONVENTIONAL FIRE DETECTION CONTROL PANEL |
| ORION-PLUS 16 | 16 ZONES EXPANDABLE CONVENTIONAL FIRE DETECTION CONTROL PANEL |
| GFE-EXP-MOD | 4 ZONE EXPANSION MODULE |