

ORION

2/4/8 Zone Fire Alarm Control Panel

- 2, 4 and 8 Zone non-expandable control panels
- Up to 32 conventional devices (smoke and/or heat detectors and call-points) per zone
- Active End of Line for Zone wiring monitoring (10µF/50V bipolar capacitor)



Overview

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 per zone; Day/Night operation mode; Selectable non-latching zones; 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, that gives one of the most highly advanced levels of system integration and compatibility existing on the market at this level, include the following: dedicated RS232 / RS485 communication interface allowing the connection of up to 4 remote repeater panels; Addressable loop interface modules and multiplexed zonal output relays and sounder modules.

Features

- Programmable non-latching zones (selectable for each zone)
- Programmable delay timer for sounder activation (maximum of 8m)
- Day/Night function
- Delayed operation (selectable for each zone)
- Zone Coincidence (programmable for adjacent zones)
- Two Access Levels (Selectable by fixed code entry)
- One man test capability
- Supervised auxiliary 24-volt supply output
- 2 Supervised/monitored sounder circuits
- 3 Remote Inputs (Class Change, Remote Reset and Day/Night Operation)
- 2 Relay outputs for fire and fault status indication (Unmonitored)
- Dedicated repeater panel and analogue loop interface
- Additional output via MPX-REL & MPX-SNDR modules
- EN 54-2 and EN 54-4 certified

Technical Specifications

Feature Description	Specification
Power Supply	
Primary Supply Voltage (Input)	230 V AC
Primary Supply Voltage (Internal)	8.5 V DC nominal
Primary Supply Output Current	1.7A @ 28.5 V DC nominal (Max)
Mains Fuse	4 A 250 V Slow Blow - 20 mm
Battery & Secondary Power	
Secondary Supply Voltage	21.0 V DC (Min) - 27.2 V DC (Max)
Battery Charger Output	28 V DC
Secondary Supply Current Output	1.85 Amp maximum @ 20°C
Internal Battery Capacity	Maximum 2 x 12 V 7 Ah Sealed VRLA Lead Acid Batteries
Battery Fuse	1.85 Amp - Resettable
Zones (Inputs)	
Number Of Detection Zones	2 / 4 / 8
Zone Current (Quiescent / Alarm)	10 mA / 60 mA Max
Devices Per Zone	32 maximum (EN54 pt.2 compliant)
Max Cable Resistance / Capacitance	40 Ohms / 0.470 µF
Alarm Resistance Value	270 - 1000 Ohms
End Of Line Monitoring	Active EOL - 10 µF / 50 V Bipolar Capacitor
BS5839 Detector Removal Compliant	Yes (provided diodes are fitted to detector base)

Feature Description	Specification
Alarm Outputs	
Maximum Current Drive	1.85 A maximum for both S1 & S2 circuits
RM Output Current	100 mA for RM output
Output Voltage	27.5 V DC nominal
End Of Line Resistor (S1 & S2)	10K Ohms - 1/4 Watt
End Of Line Resistor (RM)	4K7 Ohms - 1/4 Watt
Auxiliary Relay Output	1 x Fire (COM-NC-NO) 1 x Fault (COM-NC) non-supervised
Relay Contact Rating	30 V DC @ 2 A / 230 V AC @ 0.25 A (resistive loads)
Controls	
Evacuation And Reset	Non-Latching - Voltage free contact
Physical	
Dimensions	273 (L) x 107 (W) x 404 (H) mm
Weight	1.7 Kg (without batteries) 7 Kg (including 2 x 7Ah batteries)
Colour	White
Environmental	
Operating Temperature	-10°C to +50°C
Maximum Humidity	95% RH Non-Condensing
Protection Rating	IP30

Ordering Information

Order Code	Part No.	Description
ORION 2	ORION 2	2 Zones Conventional Fire Detection Control Panel
ORION 4	ORION 4	4 Zones Conventional Fire Detection Control Panel
ORION 8	ORION 8	8 Zones Conventional Fire Detection Control Panel

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