



ORION EX

Conventional Fire Detection & Extinguishing Panel

The ORION EX Conventional Fire Detection and Extinguishing Panel offers a creatively designed and aesthetically pleasing solution to satisfy the growing world demand for dependable Fire Suppression Systems.

The ORION EX is designed and manufactured to comply with **EN54-2, EN54-4 and EN12094-1**. The **outstanding programmable features** included in this panel are best suited to be installed in expensive housing areas and in general in all areas where loss of equipment can partially or totally disrupt the proper functioning of a business.

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: programmable pre-release and extinguishing times, electrovalve and flow switch status indications, manual and abort remote activation. There are 3 normal fire detection zones. All inputs are fully monitored for both Fire, Activation and Fault Conditions.

Plans are under way to further complement this new range of extinguishing devices. Devices such as repeater panels, addressable system interfaces, I/O expansion boards as well as manual/abort call buttons for remote connection are just some of the additions to this range.

ORION EX

Key Features

- ▶ 3 Fire Detection Zones, with Zones 1 and 2 linked with extinguishing cycle
- ▶ Up to 32 conventional smoke and/or heat detectors per Zone
- ▶ Active End of Line monitoring (10uF/50V bipolar capacitor) for Zones
- ▶ Programmable Pre-Release and Extinguishing times
- ▶ Remote Manual Activation and Remote Abort Input
- ▶ Electro valve and Pressure Switch Status Indication
- ▶ One man test
- ▶ Supervised auxiliary 24 volt supply output
- ▶ 2 Supervised/monitored output circuits
- ▶ 2 Remote inputs used for activation of Evacuation and Reset
- ▶ 2 Relay outputs fire and fault with status indication
- ▶ Fully EN 54-2, EN54-4 and EN 12094-1 compliant

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	1.85 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	1.85 Amp - Resettable
DETECTION CIRCUIT SPECIFICATION	
NUMBER OF DETECTION ZONES	3
ZONE CURRENT - QUIESCENT / ALARM	4 mA / 60 mA - Maximum
MAX. CABLE RESISTANCE / CAPACITANCE	40 Ohms / 0.470 uF
END OF LINE MONITORING	Active EOL - 10uF/50V Bipolar Electrolytic Aluminium 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/OUTPUT CIRCUIT SPECIFICATION	
CURRENT OUTPUT	1000 mA combined maximum current drive for both circuits
VOLTAGE OUTPUT	27.5 V DC Nominal
END OF LINE RESISTOR	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	30 V DC - 2 Amp resistive loads
REMOTE INPUT SPECIFICATION	
FULLY MONITORED INPUTS	Remote Activation, Remote Abort, Electrovalve Status, Flow/Pressure Switch Status
EVACUATION AND RESET	Non-Latching - Voltage free contact
MECHANICAL & OPERATING SPEC.	
MAX. HUMIDITY	95% RH Non-Condensing
PROTECTION	IP30
OPERATING TEMPERATURE	-10°C to 50°C
WEIGHT	1.7 Kg - 7 Kg (inc. 2 x 7 AH 12 V bat.)
DIMENSIONS	273 (L) x 107 (W) x 404 (H) mm
COLOUR	White or Red
ORDER CODE	
ORION EX	CONVENTIONAL FIRE DETECTION & EXTINGUISHING PANEL