



FALCON EX

EXTINGUISHING ALARM CONTROL PANEL



EN54-2:1997, EN54-2:1997/AC:1999, EN54-2:1997/A1:2006
EN54-4:1997, EN54-4:1997/AC:1999, EN54-4:1997/A1:2002,
EN54-4:1997/A2:2006
EN12094-1
CERTIFIED

The FALCON EX is an advanced fire detection and extinguishing control system that ensures top-notch safety and protection for commercial and industrial spaces. The control equipment is a combined fire alarm control panel and extinguishing system and has three detection zones, any or all of which can contribute to the extinguishant release decision. Each zone can accommodate up to 32 conventional devices, including optical and/or thermal detectors and manual call points.

The system offers programmable and independent end-of-line resistive and capacitive configurations, giving users flexibility in tailoring the system to their specific needs. Additionally, it includes a monitored flooding/extinguishing zone that enables swift activation of suppression systems.

The FALCON EX complies with EN12094-1 standards, featuring five monitored inputs for extinguishing monitoring (Activate, Abort/Hold, Flow, Valve monitor, Low Pressure monitor). The key switch allows manual or automatic mode selection, granting users control over the system's operation. Connectivity options such as RS485, Fiber-Optic, or TCP/IP allow the system to be connected to a repeater, enabling seamless communication and monitoring over extended distances. User-friendly features include a backlit graphical LCD display and alphanumeric keypad, simplifying system configuration and status monitoring.

KEY FEATURES

- 2 Monitored Conventional Detection Zones with programmable coincidence zone capability
- Each zone supports up to 32 conventional devices (optical and/or thermal detectors and manual call points)
- 1 Monitored Flooding/Extinguishing Zone for swift activation of suppression systems
- 2 Monitored Outputs: 250mA each for fire and extinction sounders
- 4 x 2A, 30Vdc non-monitored relay outputs for Fire, Fault, and 2x Programmable actions
- 2 Auxiliary Supplies: Shared output current to a maximum of 900 mA current for additional power options or expansion modules



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- 2 non-monitored configurable Inputs to trigger pre-programmed actions
- 5 inputs for extinguishing monitoring (Activate, Abort/Hold, Flow, Valve monitor, Low Pressure monitor) as per EN 12094-1 standard.
- Extinguishant delay - countdown duration before extinguishant release
- Flooding time - Sets the duration for the extinguishant release
- Key switch for manual or automatic mode selection
- Event log with storage for up to 10,000 events for thorough analysis
- CPR certification according to EN54-2, EN54-4, and EN12094-1 standards

TECHNICAL SPECIFICATIONS

MAINS SUPPLY VOLTAGE	90~264 VAC 50/60 Hz – DC input operation possible by connecting AC/N(+), AC/L(-)
INTERNAL POWER SUPPLY	28.5V DC @ 2.4A 65W
MAIN FUSE	4A - Surge protected (slow blow) 20mm HRC
MAX OUTPUT CURRENT	2.28A @ 230V AC
INTERNAL BATTERY CAPACITY - MAXIMUM	2x 12V DC 12Ah - sealed lead acid batteries; Ri < 1ohm
MAINS SUPPLY/BATTERY CHARGER FAILURE MONITORING	Yes
BATTERIES MONITORING	Yes
EARTH FAULT MONITORING	Yes
PRIMARY FIRE ZONE DETECTION	3x Monitored Fire Zones detection with programmable coincidence zone capability
MAX COMBINE DETECTORS & CALL POINTS PER CIRCUIT	32 devices
MAX CABLE LENGTH PER CIRCUIT	500m
QUIESCENT CURRENT (WITHOUT DEVICES)	50 mA
I MIN.; I MAX A; I MAX B	50 mA; 400 mA; 2000 mA
MAXIMUM CURRENT OUTPUT FROM BATTERY	2000 mA
BATTERY CHARGING CURRENT	500 mA (approx.)
ZONE MONITORING TO OPEN, SHORT CIRCUITS, FAULTS	Yes, as per EN54-2 and EN54-4
ZONE END OF LINE VALUE	Active EOL – 10µF/50 Bipolar Capacitor
NUMBER OF MONITORISED INPUTS	5 (Manual Released, Flow Switch, Low Pressure, Valve, Abort or Hold)
LINE MONITORING TO OPEN, SHORTS CIRCUITS, FAULTS	Yes, as per EN54-2, EN54-4 and EN12094-1
MONITORISED INPUTS EOL	Active EOL – 10µF/50 Bipolar Capacitor
MONITORISED INPUTS ACTION RESISTOR	680 Ω ±5%, 0.25 W resistor (active)
NUMBER OF CONVENTIONAL SOUNDER CIRCUITS	2 (1x dedicated to the fire alarm and 1x dedicated to the extinguishing alarm) Protected with 1.1 A Resettable fuse
LINE MONITORING TO OPEN, SHORTS CIRCUITS, FAULTS	Yes, as per EN54-2, EN54-4 and EN12094-1
SOUNDERS OUTPUT RATING	21V DC to 30V DC 4 x 250mA per circuit



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SOUNDERS END OF LINE RESISTOR VALUE	10 kΩ ± 5% 0.25W
REMOTE INPUTS	2x Non monitored ports (Programmable inputs - Reset; Evac/Silence; Selected I/O)
NUMBER OF AUXILIARY OUTPUTS	1 x 24V DC + 1 x 24V DC SWITCHED, both divided by 300mA total available. Protected with 300 mA Resettable fuse
KEYSWITCH	Automatic and Manual control as per EN12094-1
EXTINGUISHANT RELEASE OUTPUT	28 VDC, rated 900 mA max – peak current: 1 A Protected with 1.1 A resettable fuse
EXTINGUISHANT RELEASE TIME DELAY	Adjustable 10–60 seconds (1-second steps) in accordance with EN12094-1
EXTINGUISHANT RELEASE DURATION	Adjustable 10–300 seconds (1-second steps) in accordance with EN12094-1
FIRE RELAY AUXILIARY OUTPUT	1x Nominal voltage @ 30V DC resistive load / 0.5 @ 120V AC resistive load / 0.25A @ 240V AC non-configurable resistive load
FAULT RELAY AUXILIARY OUTPUT	1x Nominal voltage 2A @ 30V DC resistive load / 0.5 @ 120V AC resistive load / 0.25A @ 240V AC non-configurable resistive load
AUXILIARY OUTPUTS 1 and 2	2x Nominal voltage 2A @ 30V DC resistive load / 0.5 @ 120V AC resistive load / 0.25A @ 240V AC configurable resistive load
GRAPHICAL LCD	Yes
COMMUNICATION CHANNELS	3 Configurable Channels; Master Slave or Data Loop
COMMUNICATION USB PORT	USB Type B
EVENT LOG	10,000 events
OPERATING TEMPERATURE	-5°C to +40°C
HUMIDITY	Max. 95% RH
DIMENSIONS	Deep box: 273 (L) x 404 (H) x 142 (W) mm
WEIGHT	2 kg without batteries
IP RATING	IP30 (Indoor use only) - Type A
COLOUR	White (RAL 9003)

ORDER CODE

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0370-CPR-7924



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