

Cross Zone Fire Extinguishing Panel FCE628EX

Overview

- One fire extinguish output monitored for open and short circuit. The output can operate with actuators or electro valves
- Two cross zones for fire detectors
- One zone for a manual call point to start the extinguish procedure
- One zone for a manual call point to cancel the extinguish procedure
- Three modes of operation - The panel has two independent siren outputs
- One contact relay for fault status
- Two fully programable relay contacts
- Terminals to communicate with conventional fire detection panels



Control Keyboard and
indication leds

Insert the included
restoration key

Press for immediate
extinguishing



Press for extinguish
cancellation

Insert the key to access
the internal of the panel

Cross Zone Fire Extinguishing Panel FCE628EX

Specifications

LED Indicator description

The picture shows the control keyboard and the indication plate of a FCE628EX panel.

Starting from the top left side are :

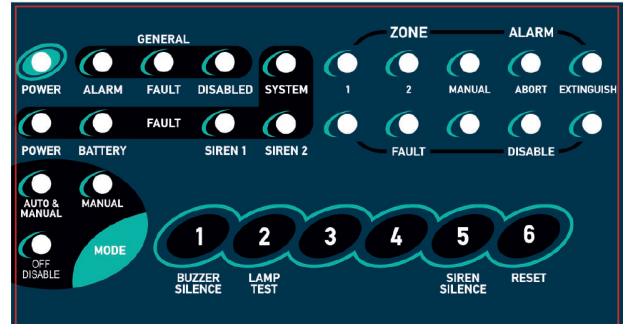
The 'Power' LED lights when the panel is powered and blinks, in mains failure.

Also in the top left side we can see three indicators marked 'General'.

The 'Alarm' LED lights when we have an ALARM condition.

The 'Fault' LED lights in every FAULT condition.

The 'Disable' LED lights in every DISABLE condition.



The 'System' LED lights when occurred a problem in the central possessor unit (System fault).

The next indication LED groups are the 'ZONE' and 'ALARM'. These indicators light when the corresponding issues an alarm condition.

Below this group we have the 'Fault/Disable' indication for each zone. When the panel monitors an open or short circuit conditions in a zone then the corresponding LED will blink. If a zone is disabled the corresponding LED will light.

When the indication LED 'Extinguish' blinks, shows that the extinguish countdown has began. When this indicator lights continuously, shows that the extinguish output is activated.

The LED marked 'Extinguish Fault' corresponds to the extinguish output. If the output has a short circuit or open circuit then the LED will blink. If the output is disabled the LED will light continuously.

The 'Siren1' and 'Siren2' LEDs correspond to siren outputs. If a siren output has a short circuit or open circuit, then the corresponding LED will blink. If a siren is disabled the LED will light continuously.

The 'Batt' LED and 'Power' LED in combination, show us faults concerning the power supply. These combinations showed in the panel below.

The 'Auto & Manual', 'Manual' and 'OFF Disable' indicators correspond to the respective operations of the panel.

	Lack of AC voltage	Battery Overcharging	Battery Discharged	Battery Absent	Charger Error
Power Fault	Lights	Lights	Lights	Blinks	Blinks
Batt Fault	----	Lights	Blinks	Lights	Blinks

Control keyboard description/operation

The panel is controlled/ operated using the six numeric keys (1 to 6). When a key is pressed a short tone is issued. The panel has three access levels for different operations. Please refer the user manual.

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Connections

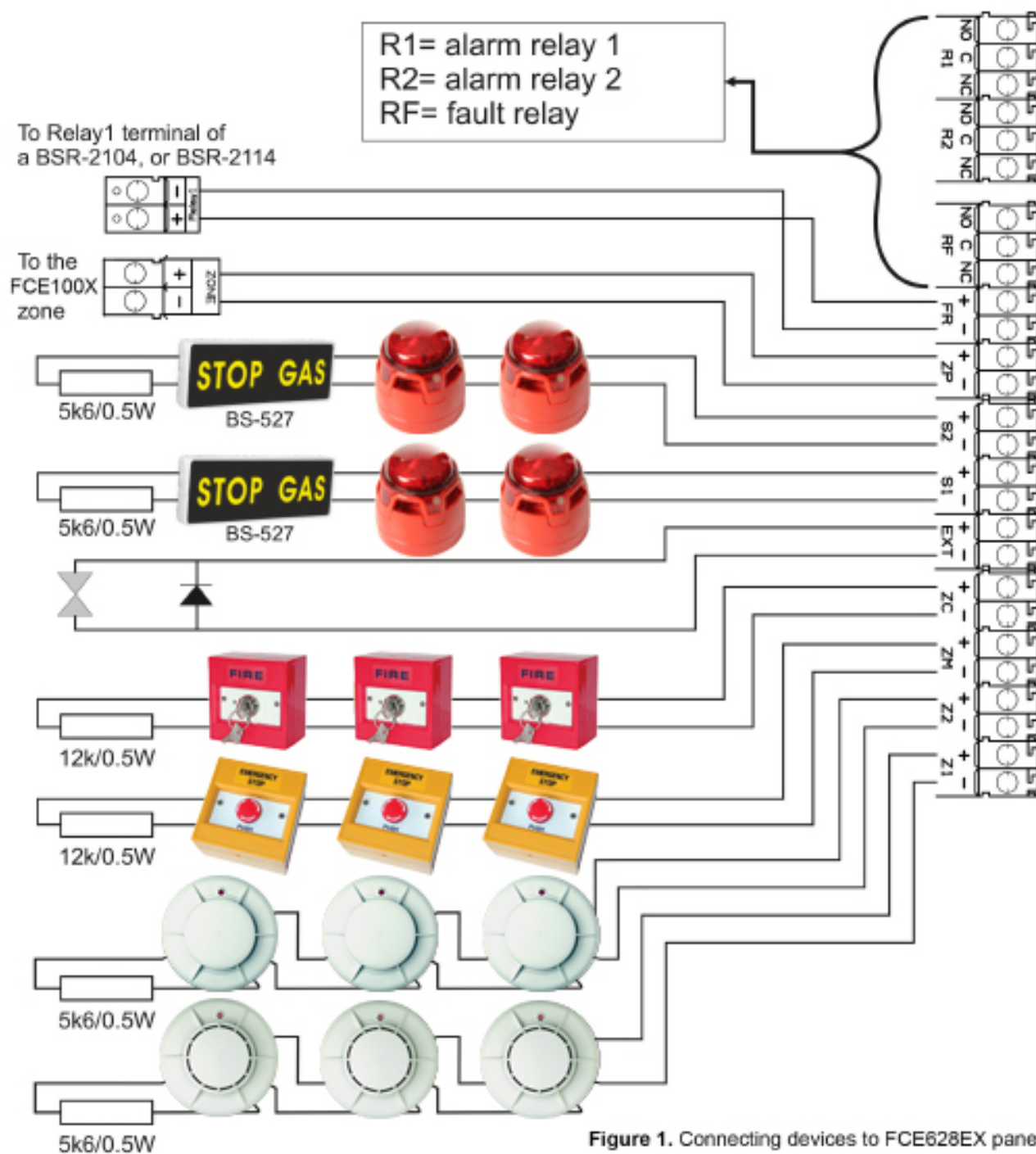


Figure 1. Connecting devices to FCE628EX panel

Cross Zone Fire Extinguishing Panel

FCE628EX

Technical Specifications

	FCE628EX 4 zone panel with one extinguish output
Mains power supply	220-240V AC 50/60Hz
Consumption	100VA
Battery type	One or two 12V Lead acid sealed 7Ah maximum
Charging circuit	Stabilized power supply 13.8V / max. 400mA
Autonomous duration	48 hours with one battery 12V-7Ah and 72 hours with two batteries 12V-7Ah (without using the 24VM and 24VP outputs)
Zone circuits	2 circuits monitored for short and open circuit conditions for detection devices (maximum current 35mA). 2 circuits monitored for short and open circuit conditions for brake glass call points (maximum current 10mA).
Alarm circuits	Two 24V circuits that are monitored for open and short circuit conditions (maximum current 300mA each). Each output is protected with a self-reseting electronic fuse.
Output 24VP	26VDC (±3VDC) permanent output with maximum current output 0.3 A The output is protected with a self-reseting electronic fuse.
Output 24VM	26VDC (±3VDC) reset interrupted output with maximum current output 0.3 A The output is protected with a self-reseting electronic fuse.
Fault relay and relays 1 and 2	The relay 1 and 2 contacts have value of 5A 250VAC. The fault relay contacts have value 1A 30VDC. Under no circumstances should voltages or currents outside limits be connected. All relays output must be protected with a fuse of the same rating.
Extinguish output	Extinguish output for actuators and electro valves (maximum 26VA). The circuit is monitored for open and short circuit conditions
Total load	The total output current (zones circuits, siren circuit, outputs 24VP, 24VM) must not exceed 1A.
Degrees of cover protection	IP 40
Cables	Cables for fire rated cables systems such a FIP200, MICC, PYROFIL
Operation temperature	0 to 50 °C
Humidity	Up to 95% relative humidity
Construction material	Electrostatically painted metal plate and ABS - polycarbonate
Dimensions	345 x 125 x 348 mm
Weight	3880gr
Produced in accordance to	EN 12094-1
Guarantee	2 years

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