

Conventional Fire Alarm Control Panel

Technical Sheet

Description

The FL-C100 series conventional fire alarm control panel is a crucial element of any fire detection and alarm system. It operates using a 2-wire system and is designed to work seamlessly with Firelast conventional detectors.

Default configuration programming enables quick and easy installation right out of the box, making it simple to set up and start using without any delays.

The FL-C100 fire alarm control panel is designed to provide an economical yet reliable solution for fire detection and alarm systems. It is an ideal choice for ensuring the safety of lives and protecting valuable properties.



Features

- 2, 4 or 8 detection zones
- Supports up to 32 conventional devices per alarm zone circuit
- Configurable non-latching alarm zones
- Configurable alarm dependency (zone coincidence detection)
- Configurable timer to delay output activation (up to 10 min)
- Capacitor end-of-line device
- 3 Access Levels
- Single-person test mode
- Day/night mode configurable
- Manual activation of alarm devices
- Auxiliary DC 24 V output, with short-circuit protection
- Programmable conventional alarm output circuit
- 2 unmonitored relay contacts for Fire Alarm Condition outputs
- 1 unmonitored relay contact for Fault Condition output
- Optional detection zone N/O and N/C relay outputs
- Optional remote LED detection zone displays
- Recessed mounting enclosure

EN54 CE

FL-C100

Technical Specifications

Power Supply	FL-C102	FL-C104	FL-C108
Operating voltage	AC (85 ~ 260) V / 50/60 Hz		
Mains supply current limit	720 mA @ AC 230 V		
Mains supply fuse	4 A / AC 250 V slow blow (20 mm)		
Mains supply fault threshold voltage	≤ AC 60 V		
Power supply	2.2 A @ DC 28.5 V		
Quiescent current (I _{min})	45 mA		
Maximum continuous output current (I _a , max)	0.425 A		
Maximum continuous output current (I _b , max)	1.3 A		
Standby battery maximum capacity (2 × DC 12 V)	7.2 Ah		
Maximum battery current draw	1.5 A @ maximum operating temperature		
Battery fuse	6 A resettable (electronic fuse)		
Battery fault threshold voltage	< DC 20 V		
Battery fault threshold internal resistance	0.5 Ω		
Detection Zones			
Detection zone circuits	2	4	8
Number of connected devices per detection zone circuit	32		
Detector zone quiescent current	5 mA		
Detector zone alarm current	40 mA	80 mA	160 mA
Detector zone wiring characteristics (max)	40 Ω / 0.47 μF		
Detection zone end-of-line capacitor	10 μF / DC 50 V		
Manual call point resistor value	(470 ~ 689) Ω		
Alarm Zones			
Alarm zone outputs	2		
Alarm zone current	700 mA		
Alarm zone end-of-line resistor	100 kΩ		
Alarm zone monitoring	Open- and short-circuit		
Alarm zone voltage (max)	DC 27.5 V		
Alarm zone fuse	1.1 A resettable (electronic fuse)		

EN54 CE

FL-C100

Technical Specifications

Ancillary Outputs	FL-CZ02	FL-CZ04	FL-CZ08
Number of programmable output relays	2		
Ancillary fire C/O relay	2 × (1.0 A @ DC 30 V / 1 A @ AC 240 V)		
Ancillary fault N/C relay	1.0 A @ DC 30 V / 1 A @ AC 240 V		
Auxiliary supply	DC (12.0 ~ 28.2) V @ 200 mA		
Auxiliary supply at Ib, min	DC (19.5 ~ 29.0) V @ 0 mA		
Ancillary Inputs			
Evacuation start / stop	Non-latching, voltage-free		
Day / Night mode	Non-latching, voltage-free		
Remote reset	Non-latching, voltage-free		
Miscellaneous			
Terminal wiring	(0.4 ~ 2.5) mm ²		
Operating temperature	(0 ~ +50) °C		
Operating humidity	(0 ~ 95) % RH, non-condensing		
Storage temperature	(-25 ~ +80) °C		
Storage humidity	(0 ~ 98) % RH, non-condensing		
Dimensions (h × w × d)	(402 × 337 × 99) mm		
Weight (excluding batteries)	4.0 kg		

Ordering Information

FL-C102	2 Detection Zone Circuits
FL-C104	4 Detection Zone Circuits
FL-C108	8 Detection Zone Circuits

EN54 CE