

CFP 762/763

Relay Output Card

It is assumed this product will be installed and maintained by a suitably skilled and technically competent person who is fully conversant with the full installation and maintenance instructions for the CFP Range of Fire Alarm Control Panels.

Important: The Outputs on this product are not designed to switch Mains voltages.

FUNCTION

This Relay Output Card is designed to mount inside the CFP Fire Alarm Panel. When connected, it provides the following isolated (voltage free) relay outputs which are directly controlled from the Panel.

- Reset** Changes over during the Panel's reset cycle.
Stays in this state for at least one second after all other Outputs have normalised.
Typically used for resetting Fire System devices such as beam detectors.
- Fault** Changes over for any fault condition (unless the User has disabled the Panel's Fault Output).
This output is failsafe in that the relay is energised when there is no fault. If the power is completely removed from the Panel then the relay will change over to produce a fault signal.
- Aux** Changes over when there is an Alarm Condition and any Delay has expired or been overridden (unless the User has disabled the Panel's Aux. Output). Typically used for controlling Fire System devices such as door closers, ventilation shut down, etc.
- Rem** Changes over when there is an Alarm Condition and any Delay has expired or been overridden (unless the User has disabled the Panel's Remote Output). Typically used for connection to Remote signalling equipment.

The following relay outputs are available on CFP763 12-Way Relay Output Cards only:-

Zone 1-8 The basic function of these outputs is to change over when the relevant Zone is in Alarm, subject to the following conditions:

- The Zone must be enabled at the Fire Alarm Panel and any Delay must have expired.

- If PLK3 is fitted in the SOUNDER position the Alarm Sounders must be active for any of the Zonal Relays to operate. If the Alarm Sounders are Silenced, any active Zone relays will return to normal. If the Alarm Sounders are Disabled, the Zone relays will never operate.



- If PLK3 is fitted in the OUTPUT position the Panel's Auxiliary Output must be active for any of the Zonal relays to operate. If the Panel is Reset, any active Zone relays will return to Normal. If the Aux Output function is Disabled, the Zone relays will never operate.



PLK3 must have a link fitted in either the SOUNDER or OUTPUT position otherwise the Zonal output relays will never operate. It is not possible to fit the link in both positions.

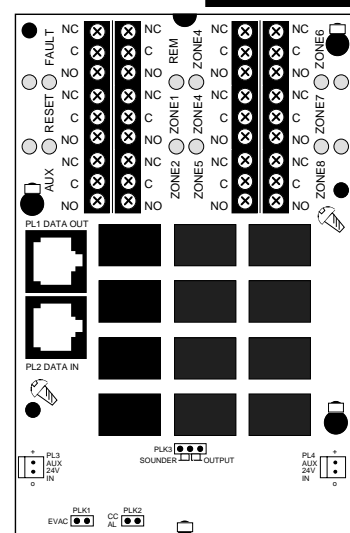
- If PLK1 "EVAC" is fitted all relays will be asserted regardless of Zone state when the Panel's 'Silence/Activate Sounders' button is pressed (i.e when a manual Evacuation is carried out).



- If PLK2 "CC/AL" is fitted all relays will be asserted regardless of Zone state when either the Panel's Class Change or Alert inputs are activated. (The relays are asserted continuously for Class Change and intermittently for Alert).



- Regardless of how links PLK1, PLK2 and PLK3 are configured, as a safety feature Zones programmed for Test will not operate the corresponding relay(s) on the Relay Output Card



INSTALLATION AND COMMISSIONING

To fit the Relay Output Card:-

- (1) Isolate the Mains supply from the Fire Alarm Panel and disconnect the battery back-up supply.
- (2) Remove the Main Control PCB and store in a safe place. (You will need to disconnect the Main Control PCB / Power Supply PCB data connection cable from PL1 on the Power Supply PCB before doing this).
- (3) Decide which of the Relay Output Card's connections are going to be used and position the cable retaining tie wraps (supplied) in the appropriate holes.
- (4) Locate the Relay Output Card in the Panel as illustrated below. Slide the PCB downwards and secure into position with the two retaining screws provided. Do not over tighten the screws otherwise their threads will strip.
- (5) Make off the system cables to the screw connectors as required and secure with the tie wraps. The system cables must be routed away from the Power Supply PCB.
- (6) Connect the 2 way polarised power supply loom (supplied in the Relay Output Card's accessory pack) between PL4 on the Relay Output Card and PL2 on the Power Supply PCB.
- (7) Plug the telecoms-style data connection cable (supplied in the Relay Output Card's accessory pack) into PL2 on the Relay Output Card. The connector simply pushes in until it 'clicks'. If removing this connector, be sure to press the release tag on the body of the connector before pulling it off.
- (8) Check the wiring and confirm that the programming links are fitted as desired.
- (9) Plug the other end of the Relay Output Card's telecoms-style data connection cable into **SK1** on the reverse of the Main Control PCB and the Power Supply data connection cable back into PL1 on the Power Supply PCB (if in doubt, refer to the diagram below). Relocate the Main Control PCB in the Panel and secure into position using the five retaining screws.

Important: If a Network Driver Card is also to be used (to allow for Repeater Panels), the following additional connections should be made BEFORE refitting the Main Control PCB:-

 - (a) Connect the Network Driver Card's telecoms-style data connection cable to PL1 on the Relay Output Card.
 - (b) Connect the Network Driver Card's 2 way polarised power supply loom to PL3 on the Relay Output Card.
- (10) Reattach the battery back-up supply, reconnect the Mains and test for correct operation.

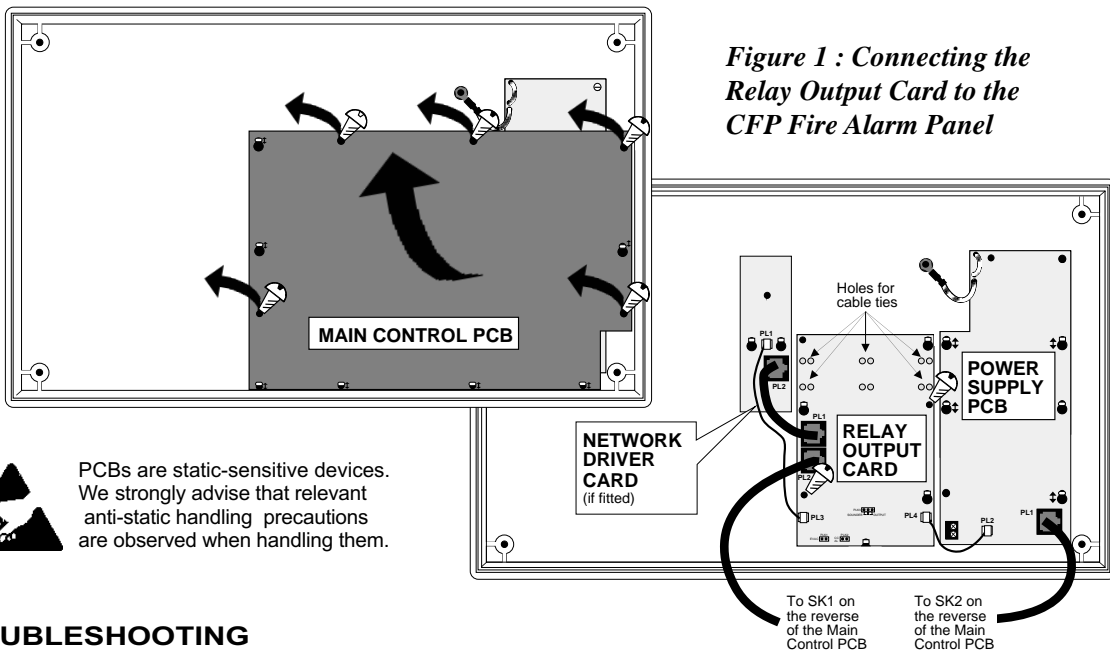


Figure 1 : Connecting the Relay Output Card to the CFP Fire Alarm Panel



PCBs are static-sensitive devices. We strongly advise that relevant anti-static handling precautions are observed when handling them.

TROUBLESHOOTING

No relays operate	Data cable faulty or not inserted correctly. Power supply cable faulty or not inserted correctly. Faulty unit.
Some relays inoperative	Functions or Zones Disabled at Main panel. Faulty unit.
Zone relays inoperative	PLK3 link not fitted in either the SOUNDER or OUTPUT position. Faulty unit.

TECHNICAL SPECIFICATION

Contact arrangement	Single pole change over
Relay contact material	AgCdO
Rating	1A 50V
Isolation between relays	50V
Isolation between relay contacts	50V
Isolation between CFP and relays	50V
Active relay coil current	27mA @ 27V6 supply
Max cable size	1.5mm c.s.a.

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