

FIRESENSE RELAY CARD (FRC)

Installation Instructions

A quick reference guide for the FireSense Relay Card (FRC). For more detailed system information, please refer to the Panel Operation Manual. Please note this instruction will not address the specific programming or operational procedures.

1. GENERAL DESCRIPTION

This instruction applies to the FRC-02 modules (look Fig.1) that are connected to MCC or FCM card. The FRC module has two “C” form relays and provides connection or disconnection two external loops by SPDT dry contacts. Any FRC modules may be connected to FCM or MCC modules via its connector. Total FRC quantity that can be connected to one Panel must be not more than five . The modules may be mounted in the standard Small Cabinet or Large Cabinet (only one card) or in Separated Cabinet (up to 4 cards). The TC-2 cabinet (special revision), which is produced by SAE Company (www.lsaec.com), is used as Separated Cabinet for up to four FRC mounting with FCM module in the one Separated Cabinet. The FRC modules are mounted on the high stand-offs therefore the relay pins to bottom distance is more than 13 mm. It allows to commutate a power AC (110-240 VAC) by the relay contacts.

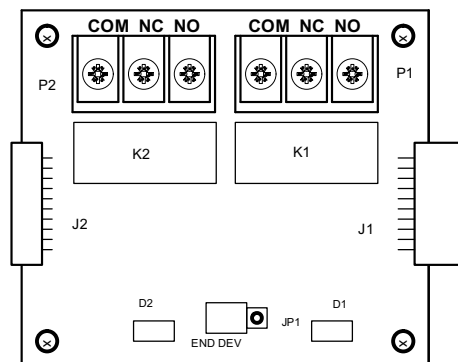


Fig.1 FRC Module Diagram

2. FRC SPECIFICATIONS

Parameter	Condition	Nominal	Unit
Standby Current Draw		0	mA
Alarm Current Draw	For each relay	25	mA
Contact rating	30VDC	10	A
Contact rating	250VAC, resistive	10	A
Contact rating	250VAC, inductive (PF=0.4)	3	A

3. FRC installation in Main Cabinet

Hardware Required:

- One FRC module
- Four plastic screws M3x6
- Connection flat cable

The FRC module is mounted in Cabinet on the bottom stand-offs, refer to Panel Operation Manual. Place module on stand-offs and tie it to stand-offs by plastic screws. Connect module by flat cable to MCC card or FCM card. Place the jumper JP1 on FRC in END DEVICE position.

Hardware Required:

- One up to 4 FRC modules
- Four plastic screws M3x10 for each card
- Connection flat cable

The remote FRC modules are mounted in Separated Cabinet with FCM module according Fig.1. Connect all FRC modules together and mount them on stand-offs by plastic screws. Connect the flat cable to first FRC. Put the jumper JP1 in END DEVICE position on last FRC module or if only one FRC is mounted and put this jumper in opposite position on another cards. Place the assembled FRC modules on the back plate stand-offs and tie them by screws. Tie by nuts to the Separated Cabinet bottom the back plate with assembled FCM and FRC modules. Connect the flat cable to FCM modules.

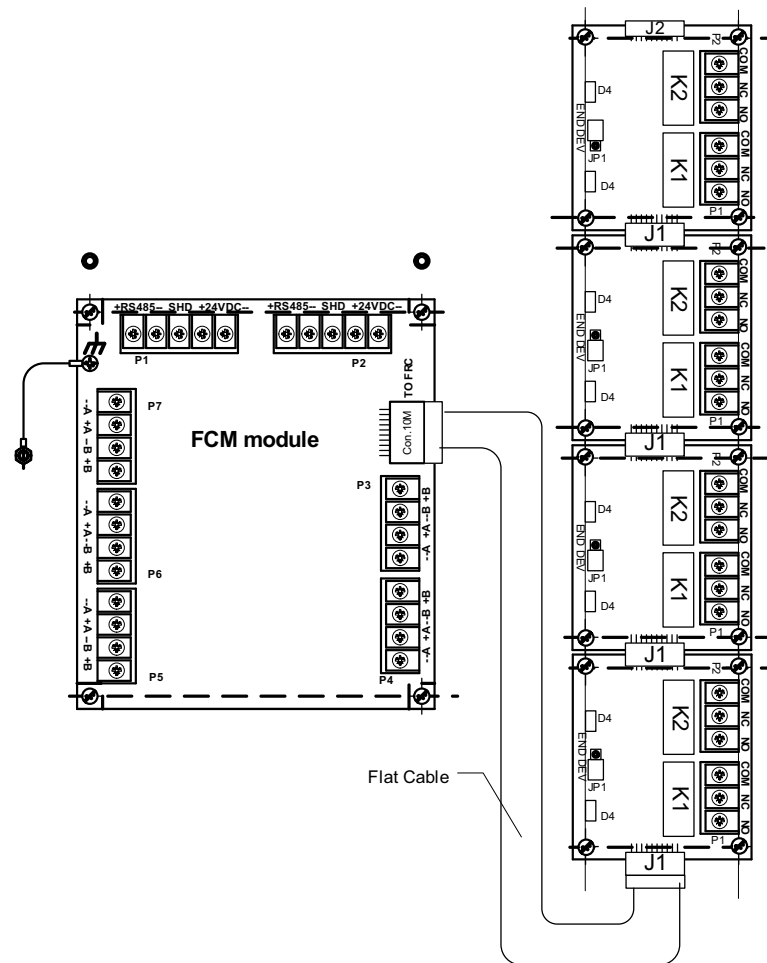


Fig. 2 FRC installation in the Separated Cabinet

WARNING!!!

If these modules will be connected to an existing operation system, inform operator and local authority that the system will be temporary out of service. Disconnect power to control panel before installing module