

TECHNICAL SPECIFICATION

Type Identification Value:	161
System Compatibility:	Use only with FC Fire Alarm Controllers
Environment:	Indoor Application only
Operating Temperature:	-25 to +70 °C
Storage Temperature:	-40 to +80 °C
Operating Humidity:	Up to 95% non-condensing
Dimensions (HxWxD):	87 x 148 x 14 mm
Mounting Requirements:	One FC backbox surface mount
Battery Requirements:	
Standby Current:	0.46mA max
Alarm Current:	4.5mA max
Addressable Device Conditions:	
	– Normal
	– Active
	– Output Stuck
	– Device Type Invalid
	– Device No Response
Relay Contact Rating:	DC – 2A @ 24V dc

⚠ Note: The module must not be used to switch mains voltages

Recommended Wire Size: Min. 1.5 mm² Max. 2.5 mm²

Electromagnetic Compatibility

The FC410RIM complies with the following:

- product family standard EN50130-4 in respect of Conducted Disturbances, Radiated Immunity, Electrostatic Discharge, Fast Transients and Slow High Energy;
- EN50081-1 for emissions.

INTRODUCTION

The FC410RIM Relay Interface Module provides one volt-free relay change-over contact on a latching relay. The relay is controlled by a command sent from the FC fire controller via the addressable loop. The relay state (activated, deactivated or stuck) is returned to the controller.

FEATURES

FC410RIM features include the following:

- Addressable functionality.
 - The control panel sends a command to operate the relay, then reports an activated or deactivated state back to the panel through the use of a set of contacts dedicated to monitor the state of the relay.
- One volt-free dry contact relay output.
- Output to drive a high voltage relay HVR800.
- LED status indicator which is normally off. When the FC410RIM receives a command to activate, the LED lights.

WIRING & INSTALLATION NOTES

⚠ CAUTION: THE O+ AND O- TERMINALS MUST NOT BE USED FOR CONNECTING THE FC410RIM TO AN HVR800, SEE PUBLICATION 17A-03-HVR OR 120-415-528.

The following notes apply:

- 1) There are no user-required settings (switches, headers) on the FC410RIM. All wiring must be free of earths.
- 2) All wiring must conform to the applicable standards.
- 3) See Figure 4 for FC410RIM Simplified Wiring Diagram.
- 4) For 24V dc powered applications, only use a regulated supply suitable for fire protective signalling service.
- 5) For powered circuit operation, route the positive conductor through the FC410RIM to the external device, while connecting the common (neutral) conductor to the external circuit.

- 6) For dry contact switching, connect the external circuit to the COM and N/O or N/C terminals for normally open or normally closed operation as required.
- 7) Verify that relay wiring is correct for the FC410RIM before connecting to the addressable loop circuit.
- 8) For connection to an HVR800 High Voltage Relay Module, refer to Installation Sheet 17A-03-HVR or 120-415-528.

INSTALLATION TO FC470CV DOUBLE GANG COVER

- 1) Assemble the FC410RIM to FC470CV Double Gang cover, using the four screws and washers provided.
- 2) Snap on the ancillary housing PCB cover.
- 3) Fit cover onto FC backbox.

ADDRESS SETTINGS

The FC410RIM has a default factory set address of 255, this must be set to the loop address of the device using the FC490ST Loop Service Tool. The FC410RIM may be programmed with the address prior to being installed by using the internal programming port (see Fig.2) or after being installed by using the programming port on the front cover (see Fig.3).

⚠ Note: once the address has been programmed, take note of the device location and address number, to include on site drawings.

CABLING

The maximum section of the cable that can be connected at any one terminal is 2.5mm². The section is calculated based on the characteristics of the cable and the load.

ORDERING INFORMATION

FC410RIM: Relay Input Module;
FC470CV: Double-Gang cover

RECYCLING INFORMATION

Customers are recommended to dispose of their used equipments (panels, detectors, sirens, and other devices) in an environmentally sound manner. Potential methods include reuse of parts or whole products and recycling of products, components, and/or materials.

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

DIRECTIVE



In the European Union, this label indicates that this product should NOT be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

The manufacturer reserves the right to change the technical specifications of this product without prior notice.

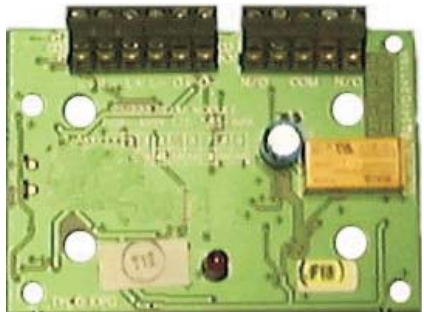


FIG. 1 FC410RIM Relay Interface Module

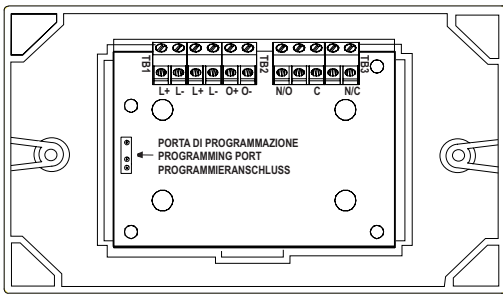


FIG. 2 FC410RIM fissata al coperchio
 FC410RIM fitted to cover
 FC410RIM ins Gehäuse eingebaut

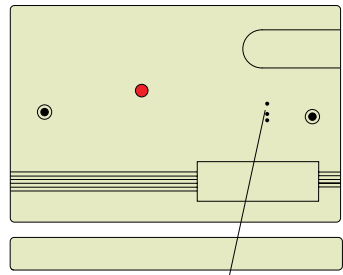


FIG. 3 FC410RIM Placca
 Facia Plate
 Kurzschlussisolator Vorderseite

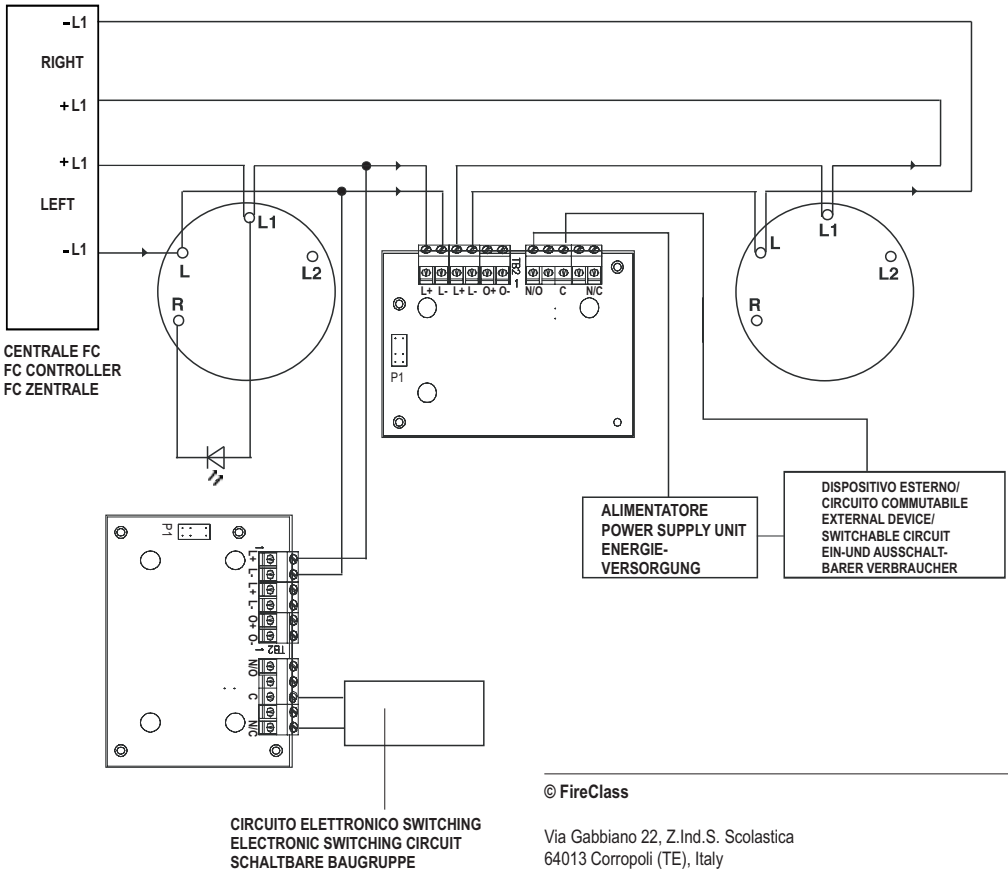


FIG. 4 FC410RIM Schema di collegamento
 FC410RIM Simplified Wiring Diagram
 Typische Verdrahtung des FC410RIM

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Via Gabbiano 22, Z.Ind.S. Scolastica
 64013 Corropoli (TE), Italy

Hillcrest Business Park Cinderbank Dudley West Midlands
 DY2 9AP United Kingdom

www.fireclass.co.uk
FireclassSales@tycoint.com