

Ei413 - RadioLINK Panel Interface

RF Wireless Interconnection Powered by panel (11-30VDC)

Key Features

- For **Fire and Security panels**
- 3 volt free contacts outputs (NO/NC) for :
 - Fire Alarm
 - CO Alarm
 - Fault messages
- External switched input (NO) either volt free or 11-30V DC
- Transmits, receives and repeats RF specific data
- RF mesh architecture
- Visual RF transmission indicator
- Unique house coding feature
- 5 year Guarantee

Product Description

The Ei413 Panel Module provides an **interface** between an Ei Electronics RF system and a suitable **security or fire panel** system.

A RF system consists of Ei Electronics Smoke, Heat, CO Alarms and accessory devices that are linked using a proprietary RF protocol. The Ei413 must be House coded to the other RF devices in the system.

In addition to panels the Ei413 can also trigger modems, valves, magnetic door holders, etc.

The Ei413 requires an 11-30VDC power supply which is normally taken from the panel.

It decodes "Fire", "CO" and "Fault" signals from the RF devices and activates the relevant relay. The relays are wired to input terminals on the panel.

The NO contact inputs (whether the voltage free or the DC voltage is used), when activated, will result in the Ei413 transmitting a RF Alarm signal that will sound all the Alarms in the RF system. These inputs are activated by an Alarm signal or a Test signal from the panel.

The Ei413 uses advanced radio transceiver technology with unique software coding to transmit, receive and repeat the RadioLINK RF protocol. This ensures a robust "mesh" of RF signals and reliable paths of communication. The house coding feature confines the RF communication to designated devices only, thereby avoiding the inadvertent activation of neighbouring alarm RF systems.

Important: Ei Electronics devices are not designed to fulfil a critical component of a BS5839-1 system's requirements such as sound pressure level in a property, or to form a necessary component of an evacuation or other life safety procedure.



Technical Specification

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| Product life: | 10 years |
| Supply Voltage: | 11-30V DC |
| Outputs: | Contacts rating: 30V, 1A Fire Alarm Relay (NO/NC) CO Alarm Relay (NO/NC) Fault Alarm Relay (NO/NC) |
| Input: | 2 options: Volt Free contact or 11-30VDC (NO) |
| RF Frequency: | 868MHz (1% duty cycle) |
| RF Power: | +5dBm |
| RF Range: | > 100Metres in free air ¹ |
| Protocol type: | Mesh architecture |
| RF Protocol: | RadioLINK |
| System size: | Up to 12 RF devices ² |
| Visual indicators: | Blue LED – RF transmission |
| Normal Operating and Storage Temperature: | Range -10°C to 40°C ³ |
| Normal Operating and Storage Humidity Range | 15 % to 95 % Relative Humidity (non-condensing) |
| Plastic material: | UL94VO Flame retardant |
| Fixing: | Screw fixing supplied |
| Dimensions: | Product - 88mm x 88mm x 42mm Package - 90mm x 90mm x 49mm |
| Weight: | 160g (Pack +14g) |
| Warranty: | 5 year (limited) warranty |
| Approvals: | |



Compliant with Radio Equipment Directive 2014/53/EU

Manufactured to ISO 9001 quality standards
Specifications are subject to change

1. Obstructions of any sort will result in a reduction in range from the free space specification. The range may vary depending on installation.
2. Please contact us for further advice if additional RF devices are required.
3. Temperature and Humidity conditions are for normal operation and storage. Units will function outside these ranges as required by the specific product Standards. Extended exposure to conditions outside these ranges can reduce product life. For advice on prolonged operation outside these ranges consult the manufacturer.

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