Ei Electronics®
fire + gas detection

BROOKS

EIB413 - RadioLINK Panel Module

For use with security/fire panels

Key Features

- Connects RadioLINK alarm to panels for additional alarms and remote signalling etc.
- Powered by 11 - 30VDC from panel
- Can be mounted internally or externally to the panel
- Provides relay outputs (NC, C, NO) from
  - Smoke Alarms sensing fire
  - Alarm fault (Low Battery or Chamber contamination)
  - CO Alarm sensing CO
- Panel can trigger all smoke/CO alarms to sound
- Antenna built-in
- Unique house coding feature
- Blue LED to facilitate house coding and visual RF transmission indication
- RF performance to AS/NZS4268:2003
- EMD performance to EN301489-1 referencing EN301489-3
- 5 Year Guarantee (limited)

Product Description

The EIB413 is a RadioLINK Panel Interface Module that provides an interface between RadioLINK Alarms and Devices and Fire Alarm / Security Alarm panels.

The Panel Interface Module will decode Fire, CO and Fault signals from RadioLINK devices and activate the relevant onboard relay contacts. The relays are wired to the input contacts on the panel which will take the appropriate action.

When the Normally Open contacts (or DC Voltage input) are activated (from the panel) the EIB413 will transmit a RadioLINK signal to all Alarms in the system causing them to sound.

The EIB413 is powered either directly from the panel or from an external source (it requires a 11-30V DC power supply). It is designed to be remotely sited and comes complete in its own enclosure.

The EIB413 uses advanced transceiver and signal coding technology to ensure robust and reliable RF signalling. It also has a House Code feature that allows a system of RadioLINK Alarms and Devices to be coded together to prevent interference with neighbouring systems.

Technical Specification

Power Required: 12V (range to 30V)

Current Required: 15mA (Standby max.)
60mA (Alarm max.)

RF Range*: Over 100 metres in free space

RF Visual Indicator:
Blue light flashes while transmitting RF signal
Blue light flashes in house code mode to indicate the number of units coded

RF Frequency: 926.365 MHz

RF Multi-repeater Function:
The module acts as an RF repeater to extend the range and reliability of the system

Dimensions: 88mm x 88mm x 28mm

Weight: 125g

Outputs to Panel: **Fire Relay** - NC, NO, Contacts rating 30V, 1 amp (NO contact closes when an alarm / test message is received from a house coded smoke alarm or other device)
Fault Relay - NC, NO, Contacts rating 30V, 1 amp (NO contact closes when a low battery or fault message is received from a house coded smoke alarm or other device). The activation of this relay could take up to 4 hours.
CO Relay - NC, NO, Contacts rating 30V, 1 amp (NO contact closes when an alarm/ test message is received from a house coded CO alarm.
Note 1: after the fault condition has been cleared it will take up to 5 hours for the relay to reset. The fault condition is cleared by fixing the fault but it is also cleared by receiving an alarm/test message.

Inputs from Panel: **Alarm:** Shorting the inputs of the SW terminals will put all the smoke/CO alarms into alarm. When this short circuit is removed it will send a "cancel alarm" message.
Alarm: applying 11 - 30VDC to the '+' and '-' terminals will put all the smoke/CO alarms into alarm. When this voltage is removed it will send a "cancel alarm" message.

Temperature range: 0°C to 40°C

Humidity Range: 15% to 95% relative Humidity (non-condensing)

Installation

The EIB413 can be installed in or next to the panel. If the panel is in a metal case, then the module should be located on the outside of the panel.

CAUTION: Before connecting the EIB 413 to a fire or security panel, please check with the panel manufacturer to determine the correct End of Line (EOL) device(s) to use and how and where they should be fitted.

The J1 slide switch on the EIB413 PCB is in the open position when shipped and will remain in this position for most applications. It is only there to simplify wiring when the Fault and Fire relay are being configured to connect to a fire panel detector circuit.

Connecting to a security panel

Check with the panel manufacturers installation manual for wiring and termination details before proceeding:

1. Each relay of the EIB413 panel module, where used, is wired to a corresponding contact input in the panel.

2. The sliding jumper link J1 (yellow) is in the off position. Thihs is the factory default setting.

3. Locate the auxiliary power output in the panel and wire it to the Vin connector on the EIB413 panel module, being careful to ensure the polarity of the auxiliary power supply has been wired correctly.

4. The alarm in signal is optional and can be triggered by an 11 - 30V DC or a dry contact signal from the panel. When this signal is activated the EIB413 will send out an RF Fire signal which will activate any RadioLINK alarms or devices that are in the same house-code.
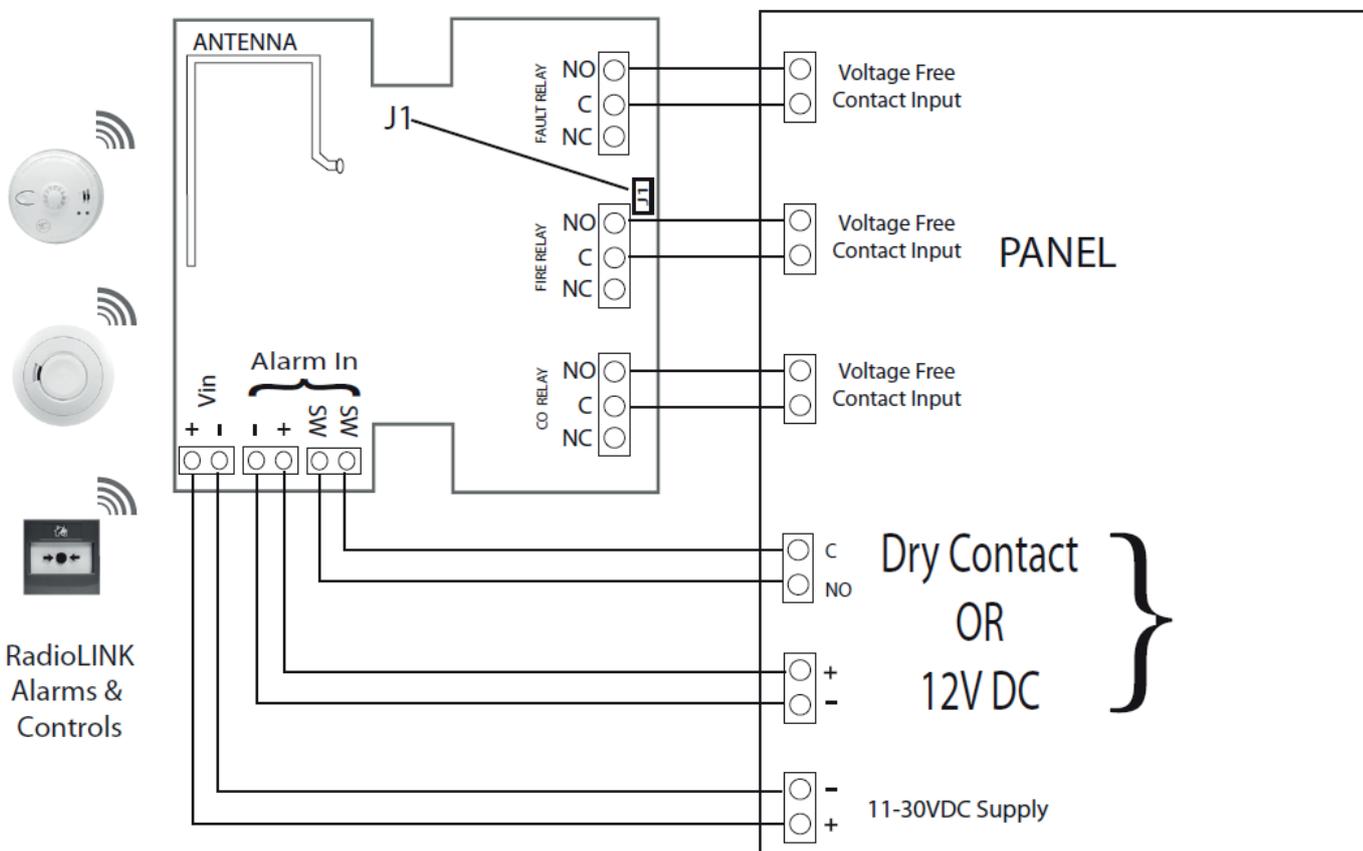
Due to continual product development, Brooks reserve the right to alter product details and specifications without prior notice.

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