

### Line Fault Detection (LF)

If you wish to enable the Line Fault Detection facility, please switch LF to the ON position and connect resistors shown on the diagram from previous page.

### Phase Reversal (PR)

If you wish to reverse the relay contacts, please switch PR to the ON position.

### Earthing

This unit does not require an Earth, however, Earth terminals are provided, should you wish to use them to loop-in and loop-out for ease of wiring.

### LED Functions

The function of the LED indicators is as follows:

RED	Line Fault Detection
YELLOW	Relay Status
GREEN	Power

## SPECIFICATION

Operating voltage	24V dc
Current consumption	40mA (max) per single channel barrier 60mA (max) per double channel barrier
Relay Contact	No/Nc with Phase Reversal (PR) 35Vdc, 0.5A (Max)
Operating temperature	5°C to +40°C
Weatherproofing	IP65 (cable entries permitting)
Dimensions	200mm(H) x 300mm(W) x 130mm(D)
Package weight	2Kg (Max)
Approvals	CE directive 93/68/EEC EMC directive 89/336/EEC, BS EN 50081-1 : 1992, BS EN 50082-1 : 1992



# INSTALLATION

## **DCI** **Hazardous Area Door Contact Interface**



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# INSTRUCTIONS

Thank you for purchasing the DCI Hazardous area door contact Interface unit. Please read these instructions carefully before starting the installation.

### FEATURES

- 24V dc operating voltage.
- Available as either a single channel or up to twelve channels.
- Accepts normally open or normally closed voltage free inputs.
- Line Fault Detection facility.
- Normally open or normally closed relay output for each channel.
- LED indicators show the status of each channel.
- Contains fully approved interface modules.

### WHO CAN INSTALL THE DCI

The installation of this equipment must be performed by an engineer with competent experience of working in a hazardous area. We also recommend that the engineer is familiar with the following standards :

**BS5345 part 1** (selection, installation & maintenance of electrical apparatus for use in potentially explosive atmospheres – general recommendations.)

**BS5345 part 4** (installation & maintenance requirements for intrinsically safe electrical apparatus and systems.)

### INSTALLATION

1. Since there are many different cable types specified by different building regulations, we have not provided cable entries. You will therefore need to drill holes into the enclosure and provide your own suitable glands. Please ensure that you use suitable glands to maintain a suitable IP rating (weatherproofing) for the enclosure.
2. For the single channel and two channel units, connect a 24V dc supply directly to the module as shown. Separate terminals are provided for the power on the three channel and upwards versions.
3. Depending on the DCI model being used, there may be dual channel modules and / or single channel modules contained within the unit. For the single channel modules, simply ignore the channel-2 labels shown.
4. Connect the unit as shown on the next page.

