# Omni16C ISO 19-60Vdc Input Board
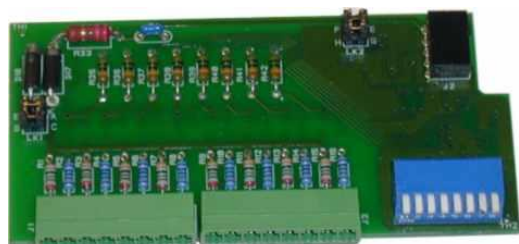
Model C1172 8 Channel ISO Input Board 19-60Vdc for Omni8C or Omni16C .

DATASHEET


Isolated Input Board

## FEATURES

- **8 Inputs individually isolated to 500 Vrms**
- **Field to Logic Isolation of 1500 Vrms**
- **Wide 19-60 Vdc Input operating range**
- **Plug-in Terminals for easy maintenance**

**This Omni16C input board is designed for use in applications where the input source voltage is supplied external to the Omni16C. This module provides 1500 Vac input to logic isolation and 500 Vac inter channel isolation.**

This input module should be used in applications where the Omni16C inputs need to be connected directly to electrical circuits such as powered contacts, relays, relay logic or interlocks etc. This allows the annunciator to be integrated into applications without the use of interposing relays.

The input sense selection (state of the input on/off for an alarm condition) is set via "DIP" switch and inputs are connected via plug-in terminals that allow easy disconnection of the module without disturbing the wiring.

Individually isolated inputs allow each input to be used in a different electrical circuit such as found in motor control circuits.

These boards should only be fitted by Omniflex trained service personnel.

To order this input board separately as a spare part, use Order Code C1172.

To order this input board as a factory-fitted option to a new Omni8/16C, add -2 to the end of the main order code.

Example:

To order a new Omni16C fitted with these inputs (two boards of eight inputs each required for an Omni16C), order as follows:

C148X-2

## SPECIFICATIONS

### Alarm Inputs – Individually Isolated

| | |
|---|---|
| Input Board Option *As fitted to Annunciator* | C148X-2 |
| *As spare part* | C1172 |
| Quantity and Type | 8 inputs with external sourced dc voltage |
| Input Voltage range | 19 to 60Vdc operating voltage (input on) |
| Isolation Input to Logic | 1500V ac rms |
| Isolation Input to Input | 500V ac rms |
| Compliance to standards | |
| Safety | IEC950 |
| EMC | EN50081-2; EN50082-2 |

### Switching Parameters (measured at 25 °C)

| | | |
|---|---|---|
| Input On | U>12 Vdc | |
| Input Off | U<9 Vdc | |
| Input Current | 1 mA at 24 Vdc | 2,6 mA at 48 Vdc |

### Temperature Range

| | |
|---|---|
| Operating Temperature | 0 °C – 60 °C (+32 °F – 140 °F) Humidity up to 90% RH, non condensing is recommended |
| Storage Temperature | -10 °C – 70 °C (+14 °F – 158 °F) Humidity less than 40% RH recommended |

### Inputs General

| | |
|---|---|
| Input Scan Rate | 4 milliseconds |
| Wire size | 1.5 mm$^2$ (17 SWG/15.5 SWG) max. |
| Connections | Via plug-in Terminals |

### Ordering Information

| Model Number | Description |
|---|---|
| C148X-2 | As fitted to an Omni16C Annunciator |
| C1172 | 8 Channel Isolated Input Board 19-60Vdc supplied as a spare part. |

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# Omni16C ISO 19-60Vdc Input Board

Model C1172 8 Channel ISO Input Board 19-60Vdc for Omni8C or Omni16C .

## ELECTRICAL CONNECTION



**Field**

**A** — **Input Card as fitted to Slot A of Omni8/16C**

| Terminal | Pin | Input |
|---|---|---|
| 16 | 8A | IP8 |
| 15 | 8B | |
| 14 | 7A | IP7 |
| 13 | 7B | |
| 12 | 6A | IP6 |
| 11 | 6B | |
| 10 | 5A | IP5 |
| 9 | 5B | |
| 8 | 4A | IP4 |
| 7 | 4B | |
| 6 | 3A | IP3 |
| 5 | 3B | |
| 4 | 2A | IP2 |
| 3 | 2B | |
| 2 | 1A | IP1 |
| 1 | 1B | |

8 ISOLATED INPUTS

**B** — **Input Card as fitted to Slot B of Omni8/16C**

| Terminal | Pin | Input |
|---|---|---|
| 16 | 16A | IP16 |
| 15 | 16B | |
| 14 | 15A | IP15 |
| 13 | 15B | |
| 12 | 14A | IP14 |
| 11 | 14B | |
| 10 | 13A | IP13 |
| 9 | 13B | |
| 8 | 12A | IP12 |
| 7 | 12B | |
| 6 | 11A | IP11 |
| 5 | 11B | |
| 4 | 10A | IP10 |
| 3 | 10B | |
| 2 | 9A | IP9 |
| 1 | 9B | |

8 ISOLATED INPUTS

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