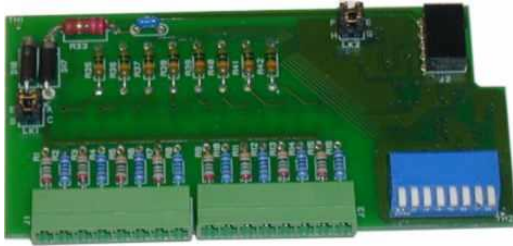




Omni16C ISO 90-150Vac/dc Input Board

Model C1170 8 Channel ISO Input Board 90-150Vac/dc for Omni8C or Omni16C .

DATASHEET



Isolated Input Board

FEATURES

- 8 Inputs individually isolated to 500 Vrms
- Field to Logic Isolation of 1500 Vrms
- Wide 90-150 Vac/dc 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 externally to the Omni8/16C. 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 Omni8/16C inputs need to be connected directly to electrical circuits such as ac powered contactors or relays, relay logic or interlocks etc. powered by 110 Vac/dc. 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 C1170.

To order this input board as a factory-fitted option to a new Omni8/16C, add -3 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-3

SPECIFICATIONS

Alarm Inputs – Individually Isolated

Input Board Option <i>As fitted to Annunciator</i>	C148X-3
<i>As spare part</i>	C1170
Quantity and Type	8 inputs with external sourced ac/dc voltage
Input Voltage range	90 to 150 Vac/dc nominal operating voltage (input on)
Isolation Input to Logic	1500 Vac rms
Isolation Input to Input	500 Vac rms
Compliance to standards	
Safety	IEC950
EMC	EN50081-2; EN50082-2

Switching Parameters (measured at 25 °C)

Input On	$U > 88 \text{ Vac rms}$ or $U > 50 \text{ Vdc}$
Input Off	$U < 25 \text{ Vac rms}$ or $U < 35 \text{ Vdc}$
Input Current	1,2 mA at 110 Vac

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-3	As fitted to an Omni16C Annunciator
C1170	8 Channel Isolated Input Board 90-150 Vac supplied as a spare part.



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ELECTRICAL CONNECTION

