

### Description

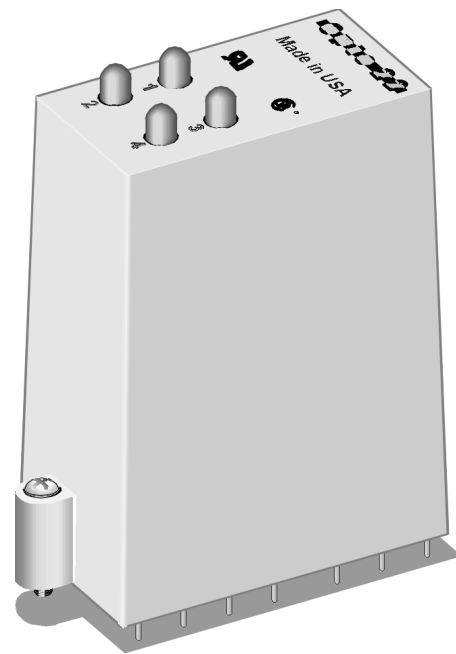
Quad Pak modules contain the equivalent of four single-channel I/O circuits in a single high-density package. Each Quad Pak module can be divided into two pairs, with each pair sharing a common connection. The Quad Pak modules are designed to plug into the Quad Pak high-density I/O mounting racks only and cannot be plugged into single-channel racks. Quad Pak modules are designed to work with a 5 VDC logic voltage only. These modules can be used with Optomux, Pamux, and Mystic protocol brain boards and mounting racks as well as racks using a direct cable connection to a computer.

AC input modules are used for sensing ON/OFF AC voltages. All AC input modules are designed with filtering on the input and a hysteresis amplifier for high noise rejection and transient-free "clean" switching. Each module provides up to 4,000 V<sub>rms</sub> of optical isolation between field inputs and the logic side of the circuit.

Typical uses and applications include sensing the presence or absence of voltage or sensing contact closures from sources such as:

- Proximity Switches
- Limit Switches
- Selector Switches
- Push Buttons
- Toggle Switches
- Thermostats

Part Number	Description
IDC5Q	4-Channel AC Input 12–32 VAC, 5 VDC Logic
IAC5Q	4-Channel AC Input 90–140 VAC, 5 VDC Logic
IAC5AQ	4-Channel AC Input 180–280 VAC, 5 VDC Logic



### Specifications

#### General

Operating Ambient Temperature	-30° to 70° C
Isolation Input-to-Output	4,000 Vrms
Output Voltage Drop	0.4 volts @ 50 milliamperes
Output Current	50 milliamperes
Output Leakage With No Input	100 microamperes maximum @ 5 VDC
Output Transistor	30 volts breakdown

Specifications are continued on the next page.

# OPTO 22

## DATA SHEET

Form 485-040927

# I/O MODULES QUAD AC INPUT

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### Specifications (continued)

	Units	IDC5Q	IAC5Q	IAC5AQ
Input Voltage Range	VAC	12–32	90–140	180–280
Input Current @ Maximum Line	mA	29	5	5
Turn-on Time	msec	5	20	20
Turn-off Time	msec	5	20	20
Input Allowed For No Output	mA, V	1, 3	3, 45	1.7, 80
Logic Supply Voltage - Nominal	VDC	5	5	5
Logic Supply Voltage - Nominal	VDC	4.5–6	4.5–6	4.5–6
Logic Supply Voltage - Nominal	mA	12	12	12
Input Resistance	Ohms	1.5K	24K	66K
Control Resistance	Ohms	220	220	220

### Dimensions

