QUAD PAK AC OUTPUT MODULE

Features

- Contains four single-channel I/O circuits.
- Each module can be divided into two pairs with each pair sharing a common connection.
- Used for controlling or switching AC loads.
- Provides up to 4,000 Vrms of optical isolation between field devices and control logic.
- Features zero voltage turn-on and zero current turn-off

OAC5Q

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.

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 and can be used with Optomux, Pamux, and Mistic protocol brain boards and mounting racks as well as racks using a direct cable connection to a computer.

Quad Pak modules can also be used with a Raspberry Pi, the Digital I/O Carrier Board (part number OPTO-P1-40P), and the PB16HQ mounting rack.

AC output modules are used for controlling or switching AC loads. Each module provides up to 4,000 Vrms of optical isolation between the field devices and the control logic. The Quad Pak AC output module features zero voltage turn-on and zero current turn-off.

Typical uses and applications for AC output modules include switching the following loads:

- Relays
- Solenoids and Contactors
- Motor Starters
- Heaters
- Lamps or Indicators

Part Numbers

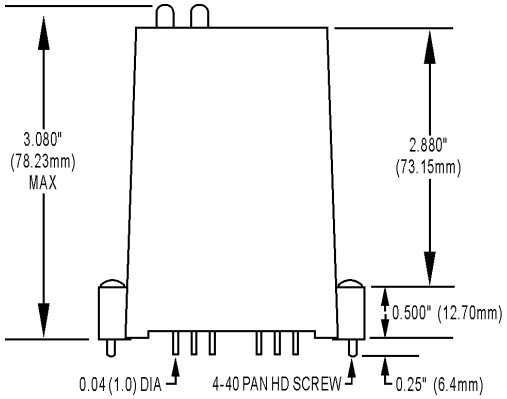
Part	Description
OAC5Q	4-Channel AC Output 12-280 VAC, 5 VDC Logic

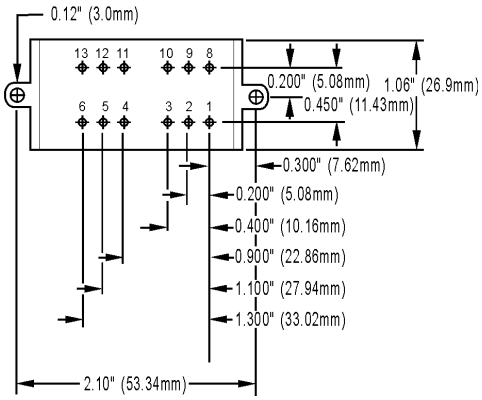
SPECIFICATIONS

Line Voltage–Nominal	120/240 VAC
Operating Voltage Range	12–280 VAC
Current Rating (per channel) @ 20° C Ambient @ 45° C Ambient	3 amps 2 amps
One Cycle Surge	80 amps
Logic Voltage–Nominal	5 VDC
Logic Voltage Range (Vcc)	4–8 VDC
Logic Pickup Voltage	4.0 VDC
Logic Dropout Voltage	2.3 VDC
Logic Input Current @ Nominal Logic Voltage (Iout in Schematic Diagram)	12 mA
Control Resistance (Rc in Schematic Diagram)	220 ohms

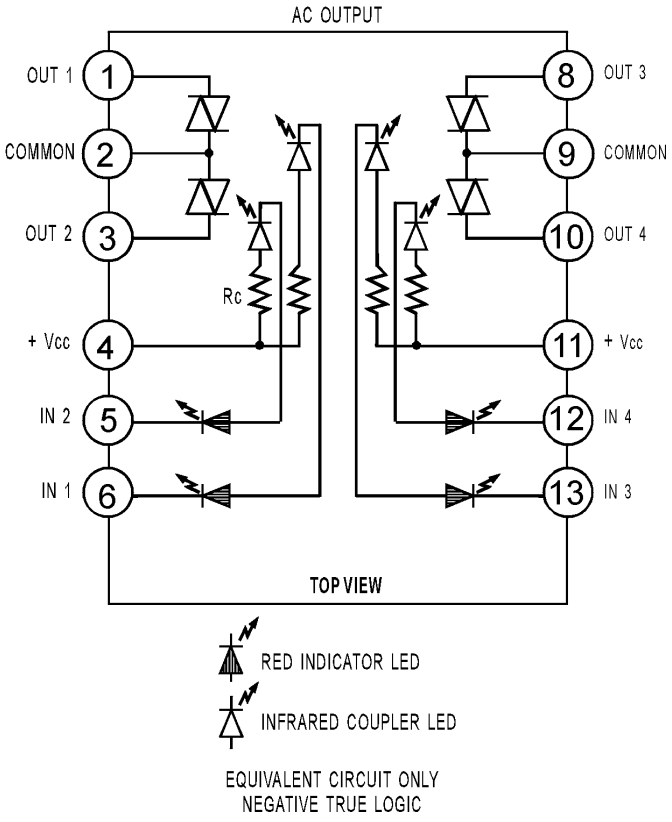
Peak Repetitve Voltage	500 volts
Operating Ambient Temperature	-30 to 70 °C
Isolation Input-to-Output	4,000 Vrms
Minimum Load Current	20 milliamps
Operating Frequency	25–65 Hz
Turn-on Time	1/2 cycle maximum-zero voltage
Turn-off Time	1/2 cycle maximum-zero current
DV/DT-Off-state	snubbed for rated 0.5 power factor load
Output VOltage Drop Maximum Peak	1.6 volts
Off-state Leakage @ Nominal Voltage-60Hz	5 milliamps, ms
Agency Approvals	UL, CE, CSA; UKCA

DIMENSIONS





SCHEMATICS



CONNECTIONS