

## DATA SHEET

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Form 488-070924

### Description

| Part Numbers | Description                                |
|--------------|--------------------------------------------|
| ODC5Q        | 4-Channel DC Output 5–60 VDC, 5 VDC Logic  |
| ODC5AQ       | 4-Channel DC Output 5–200 VDC, 5 VDC Logic |

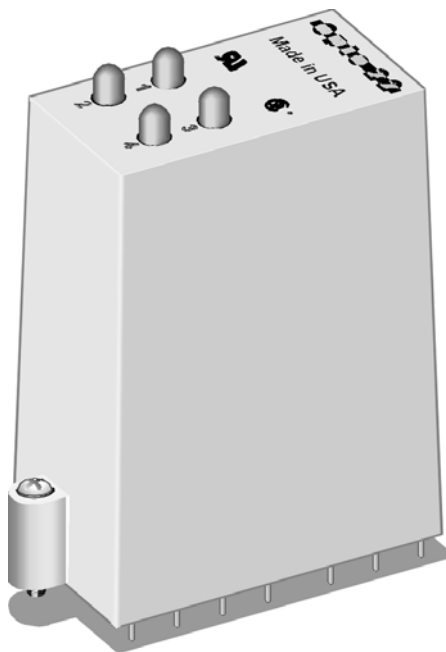
Quad Pak modules contain the equivalent of four single channel I/O circuits in a single high-density package. Each Quad Pak module is divided into two pairs of channels with each pair sharing a common connection. The Quad Pak modules are designed to plug into the Quad Pak high-density I/O mounting racks only and cannot be plugged into single channel racks. Quad Pak modules are designed to work with a 5 VDC logic voltage only and 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.

DC output modules are used for controlling or switching DC loads. Each module provides up to 4,000 V<sub>rms</sub> of optical isolation between the field devices and the control logic.

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

- DC Relays
- DC Solenoids
- DC Motor Starters
- DC Lamps or Indicators

All Quad Pak DC outputs are current sourcing outputs. The module connection to the load is the positive connection.



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### Specifications

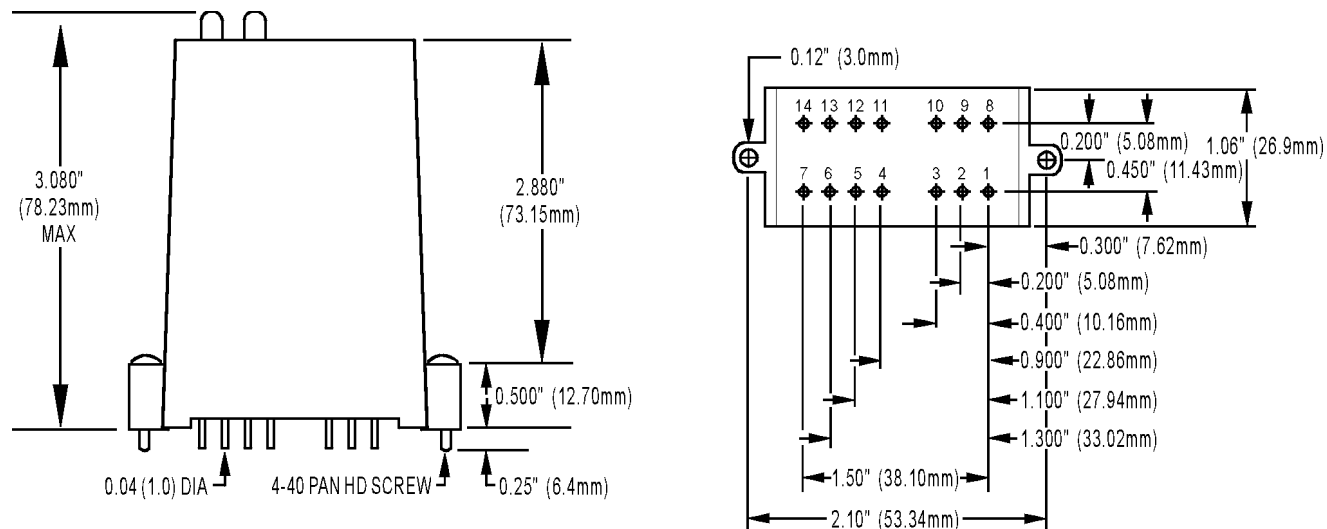
|                                                | Units | ODC5Q     | ODC5AQ    |
|------------------------------------------------|-------|-----------|-----------|
| Line Voltage - Maximum                         | VDC   | 60        | 200       |
| Operating Voltage Range                        | VDC   | 5-60      | 5-200     |
| Current Rating (each channel)                  |       |           |           |
| @ 20° C Ambient                                | Amps  | 3         | 1         |
| @ 45° C Ambient                                | Amps  | 2         | 1         |
| @ 70° C Ambient                                | Amps  | 1         | 0.55      |
| Off-state Leakage @<br>Maximum Voltage         | mA    | 1         | 2         |
| Logic Voltage - Nominal                        | VDC   | 5         | 5         |
| Logic Voltage Range (Vcc)                      | VDC   | 4-8       | 4-8       |
| Logic Pickup Voltage                           | VDC   | 4.0       | 4.0       |
| Logic Dropout Voltage                          | VDC   | 2.3       | 2.3       |
| Logic Input Current<br>@ Nominal Logic Voltage | mA    | 12        | 12        |
| Control Resistance                             | Ohms  | 220       | 220       |
| One-Second Surge                               | Amps  | 5         | 5         |
| Operating Ambient<br>Temperature               | °C    | -30 to 70 | -30 to 70 |
| Isolation Input-to-Output                      | Vrms  | 4,000     | 4,000     |
| Turn-on Time                                   | µs    | 100       | 100       |
| Turn-off Time                                  | µs    | 750       | 750       |
| Output Voltage Drop<br>Maximum                 | Volts | 1.6       | 1.6       |

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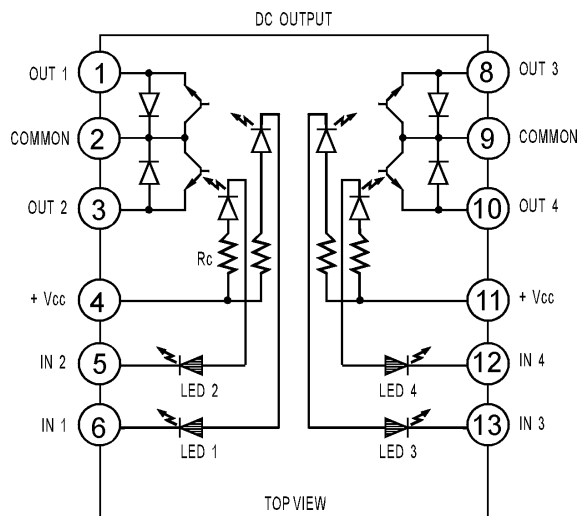
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## Dimensions



## Schematics



- RED INDICATOR LED
- INFRARED COUPLER LED
- EQUIVALENT CIRCUIT ONLY
- NEGATIVE TRUE LOGIC
- INDUCTIVE LOADS MUST BE DIODE SUPPRESSED