Description

The 2588-8 Point Universal Discrete Input Module accepts a wide range of voltage signals. It is designed to accept both AC and DC voltage allowing the user to pick and choose ranges on a single module. The 2588-8 can replace Siemens® 8 point input products with no rewiring. Motor centers, optical sensors, limit switches and utility control are excellent examples of applications for this product.

Features

- CTI 2500 Series® or Simatic® 505 base format
- 8 universal input points
- Replaces Siemens® 505-4008-A, 4208-A, 4308, and 4408-A with no rewiring
- 1500V channel-to-PLC backplane and group-to-group isolation
- Wide 11V to 220V AC/DC range (selectable by group)
- Isolation in groups of 2
- Sourcing or sinking inputs
- Single-wide module

Specifications

Inputs per Module: 8
Isolation:
1500 VDC channel-to-backplane
1500 VDC group-to-group
Input Voltage:
Range Setting Operating Range
12/24V range 11 - 30 volts
48V range 40 - 56 volts
110V range 79 - 132 volts
220V range 164 - 240 volts
Input Current:
AC: 2.1 - 3.6 mA
DC: 2.5 - 4.3 mA
Operating Characteristics for Typical Input:
AC Voltage Input:
Turn ON Time: 4.0mS
Turn OFF Time: 15.0mS
DC Voltage Input:
Turn ON Time: 1.0mS
Turn OFF Time: 15.0mS
Connector: Removable
Wire Gauge: 14 - 22 AWG
Backplane Power: 1.8 Watts max.
Module Size: Single-wide
Shipping Weight: 1.5 lb. (0.68 Kg)

Additional Product Information:

On CTI’s Website you will find links to the 2500 Series
Standard Environmental Specifications and the UL Agency Certificates of Compliance .

Standard Shipping Configuration

<table>
<thead>
<tr>
<th>Jumper</th>
<th>Selection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel 1 thru 8</td>
<td>110V</td>
</tr>
</tbody>
</table>
Isolation Configuration

On the 2588-8, two channels share a common return path. On the 2588-8 J3 through J6 are not used.

Voltage Range

The 2588-8 will handle a wide range of AC and DC signals, and has jumpers located on the PCB to allow the user to select between 12/24V, 48V, 110V or 220V on a per channel basis using the jumpers located on the PCB. See the PCB Jumper Configuration Location diagram below. The operating ranges are as follows:

<table>
<thead>
<tr>
<th>Range Setting</th>
<th>Operating Range</th>
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PCB Jumper Configuration  Location