2500C-16 IDs-120V Discrete Input Module

**DESCRIPTION**

The 2500C-16 IDs-120V 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. Motor centers, optical sensors, limit switches and utility control are excellent examples of applications for this product.

**FEATURES**

- Single wide module
- 16 Isolated channel to channel inputs
- Supports AC or DC voltage inputs
- Sourcing or sinking Inputs
- Channel On/Off Status Indication
- Uses CTI's 2500C-32F Connector

<table>
<thead>
<tr>
<th>Input Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inputs per module</strong></td>
</tr>
<tr>
<td><strong>Module Logon</strong></td>
</tr>
<tr>
<td><strong>Signal Range</strong></td>
</tr>
</tbody>
</table>
| **Input current**     | VAC 1.4 - 9.3mA  
                       | VDC 2.9 - 9.3mA  |

**Operating Characteristics for Typical Input**

- **AC Voltage Input**
  - Turn ON Time: 3.76 mS
  - Turn OFF Time: 15.0 mS

- **DC Voltage Input**
  - Turn ON Time: 3.14 mS
  - Turn OFF Time: 13.7 mS

**Module Size**

- Single wide module

**Connector**

- 2500C-32F

**Backplane Power (MAX)**

- 0.077 watts no inputs ON
- 1.193 watts all inputs ON

**Input ESD Protection**

- IEC-1000-4-2 Level 4

**Isolation**

- 1500 VDC Channel to Backplane
- 1000 VDC Channel to Channel

**Shipping Dimensions and Weight**

- 223.84mm x 109.86mm x 34.93mm, 0.234 kg

**Operating Temperature Range**

- 0°C to 60°C (32°F to 140°F)

**Storage Temperature Range**

- -40°C to 85°C (-40°F to 185°F)

**Relative Humidity**

- 5% to 95% (non-condensing)

**Agency Approvals Pending**

- UL, ULC, UL Class 1, Div 2, CE

---

2500C-16 IDs-120V Default Shipment Settings

<table>
<thead>
<tr>
<th>Operation Mode</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logon</td>
<td>16X</td>
</tr>
<tr>
<td>Signal Range</td>
<td>79-132 VAC/VDC</td>
</tr>
</tbody>
</table>
Note:
The 2500C-16-IDI-120V Discrete Input Modules use CTI Wiring Connector 2500C-32F. Please see the wiring connector specification table below. This connector is ordered separately from the module.

### 2500C-32F Specifications

<table>
<thead>
<tr>
<th>Connector Style</th>
<th>Removable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Wiring Connections</td>
<td>32 point</td>
</tr>
<tr>
<td>Wire Gauge</td>
<td>Copper Conductors Only</td>
</tr>
<tr>
<td>Use</td>
<td>14 to 22AWG</td>
</tr>
<tr>
<td>Screw Torque Value</td>
<td>5.22 lb-in</td>
</tr>
<tr>
<td>Current Rating</td>
<td>6A @ 300VAC</td>
</tr>
<tr>
<td>Insulation Stripping Length</td>
<td>0.24&quot; 6mm</td>
</tr>
</tbody>
</table>

#### Connector Material

- **Body:** Polycarbonate UL 94V0
- **Screw:** M3 Zinc plated Steel
- **Cage Clamp:** Nickel Plated Brass
- **Socket Contact Spring:** Tin Plated Bronze
- **Retaining Screw:** M3 Zinc Plated Steel