The PX-148 DC Input Terminal provides eight electrically isolated 24VDC sinking inputs with LED status. Use with the Protos X.

**PX-148 Input Terminal Specifications**

- **Inputs per Terminal**: 8
- **Input Type**: Sinking
- **Input Data Bytes Used**: 1-byte
- **Input Power Source**: Requires external 24VDC power source
- **Current Consumption from Terminal Power Bus**: Typ. 2mA + load
- **Operating Voltage Rating**: 24VDC (-15%/+20%)
- **Peak Voltage Rating**: 30VDC
- **On Voltage Level**: 15 to 30 VDC
- **Off Voltage Level**: -3 to +5 VDC
- **Minimum On Current**: 2mA
- **Maximum Off Current**: 1.5mA
- **Current Consumption from I/O Bus**: Typ. 5mA
- **Electrical Isolation**: 500Vrms (I/O bus/field potential)
- **Heat Dissipation**: 1W max
- **Off/On Response**: 3ms
- **On /Off Response**: 3ms
- **Adjacent Mounting on Bus Terminals with Power Contact**: Yes, DC only
- **Adjacent Mounting on Bus Terminals without Power Contact**: No
- **Passes Terminal Bus Power**: Yes
- **Passes PE Bus**: No
- **Status Indicators**: 8, indicates input is on

**General Specifications**

- **Operating Temperature**: 32° to 131°F (0° to 55°C)
- **Storage Temperature**: 13° to 185°F (-25° to 85°C)
- **Relative Humidity**: 5% to 95%, non-condensing
- **Environment Air**: No corrosive gases permitted
- **Mounting/Orientation Restrictions**: 35mm DIN rail/None
- **Vibration**: conforms to EN 60068-2-6
- **Shock**: conforms to EN 60068-2-27 / EN 60068-2-29
- **Noise Immunity**: conforms to EN 61000-6-2 / EN61000-6-4
- **Protection Class**: IP20
- **Weight**: 55g
- **Dimensions (WxHxD)**: 12 x 100 x 68.8 mm (0.47 x 3.94 x 2.71 in)
- **Agency Approvals**: UL File No. E157382, CE
**MOUNTING**
For system assembly, first attach a bus coupler by snapping onto 35mm DIN rail and securing into position using the DIN rail locking wheel (where applicable) located on the left side of the coupler. To add a bus terminal, insert unit onto right side of bus coupler using the tongue and groove at the top and bottom of the unit, pressing gently until it snaps onto the DIN rail. A proper connection cannot be made by sliding the units together on the DIN rail. When correctly installed, no significant gap can be seen between the attached units. Bus connection is made through the six slide contacts located on the upper right side of the units. Add up to 64 bus terminals per bus coupler, including a bus end terminal.

**REMOVAL**
A locking mechanism prevents individual units from being pulled off. For bus terminal removal, pull the orange DIN rail release tab firmly to unlatch the unit from the rail. If attached to other terminal units, slide unit forward until released. For bus couplers with locking wheels, release the DIN rail locking wheel, then pull firmly on DIN rail release tab.

**WARNING**
To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

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**WIRING CONNECTION**
Wire connection is made through a spring clamp style terminal. This terminal is designed for a single-conductor solid or stranded wire. Wire connection is made by firmly pushing the screwdriver into the screwdriver slot, inserting the wire into the wire slot and removing the screwdriver, locking the wire into position.

**IMPORTANT**
For complete assembly instructions and compatibility between terminals see the PX-USER-M manual available for free download at www.automationdirect.com.

**HOT SWAP NOT PERMITTED**
Always remove power from the system before inserting or removing bus terminals or couplers as failure to do so could cause malfunction or damage to the terminals, couplers or other connected devices.

<table>
<thead>
<tr>
<th>Connection Type</th>
<th>Spring Clamp Terminals</th>
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<tbody>
<tr>
<td>Wire Gauge / Wire Cross Section</td>
<td>28-14 AWG / 0.08 - 2.5mm²</td>
</tr>
<tr>
<td>Screwdriver Width</td>
<td>2.5mm (0.10) such as our TW-SD-MSL-2</td>
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<tr>
<td>Wire Stripping Length</td>
<td>8mm</td>
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