The PX-272-2 Relay Output Terminal provides two 230VAC/30VDC 5A outputs with LED status. Intended for use with 4-wire, 3-wire and 2-wire devices. Use with the Protos X™ I/O System.

**General Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>32° to 131°F (0° to 55°C)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>13° to 185°F (-25° to 85°C)</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5% to 95%, non-condensing</td>
</tr>
<tr>
<td>Environment Air</td>
<td>No corrosive gases permitted</td>
</tr>
<tr>
<td>Mounting/Orientation Restrictions</td>
<td>35mm DIN rail/None</td>
</tr>
<tr>
<td>Vibration</td>
<td>Conforms to EN 60068-2-6</td>
</tr>
<tr>
<td>Shock</td>
<td>Conforms to EN 60068-2-27, EN 60068-2-29</td>
</tr>
<tr>
<td>Noise Immunity</td>
<td>Conforms to EN 61000-6-2/EN16000-6-4</td>
</tr>
<tr>
<td>Protection Class</td>
<td>IP20</td>
</tr>
<tr>
<td>Weight</td>
<td>85g</td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>12 x 100 x 68.8 mm (0.47 x 3.94 x 2.71 in)</td>
</tr>
<tr>
<td>Agency Approvals</td>
<td>UL/cUL File No. E157382, CE</td>
</tr>
</tbody>
</table>

**Outputs Per Terminal**

- 2

**Commons Per Terminal**

- 2

**Output Type**

- SPST Relay, normally open contact (DC – sourcing only)

**Output Data Bytes Used**

- 1/4 byte (2-bits)

**Output Power Source**

- 230VAC / 30VDC provided via terminal power bus

**Current Consumption (from Terminal Power Bus)**

- (ON resistance typ 2.4Ω, max 3.2Ω) + load

**Operating Voltage**

- 230VAC / 30VDC

**Maximum Load Current**

- 5A per point

**Maximum Load Current with Resistive Load**

- AC: 5A @ 230VAC, 125Ω
  - DC: 5A @ 30VDC, 150Ω

**Maximum Load Current with Inductive Load, cos/ω=0.4, L/R=7ms**

- AC: 2A @ 230VAC
  - DC: 2A @ 30VDC

**Minimum Load (Approximate)**

- 10mA @ 5VDC (as supplied)
  - 100mA @ 20VDC (after approx. ≥ 100mA has been switched at least once)

**Load Type**

- Resistive, inductive, lamp

**Switching Times**

- Reaction Time: 10ms max.
  - Release Time: 4ms max.
  - Bounce Time: 5ms max.

**Contact Material**

- Silver Cadmium Oxide

**Current Consumption (from I/O Bus)**

- 80mA

**Electrical Isolation**

- 500Vrms (I/O bus/field potential), 2500VDC (1 min.)

**Heat Dissipation**

- 1W max

**Switching Frequency at Maximum Contact Load**

- 10/minute

**Maximum Contact Resistance**

- < 30mΩ

**Minimum Insulation Resistance**

- 100MΩ @ 500VDC

**Mechanical Operating Life**

- 20,000,000 switching operations

**Electrical Operating Life**

- Minimum 100,000 switching operations with resistive loads

**Test Voltage Between Open Contacts**

- 750V for 1 minute

**Adjacently Mounting on Bus Terminals with Power Contact**

- Yes, 230VAC / 30VDC only

**Adjacently Mounting on Bus Terminals without Power Contact**

- No

**Passes Terminal Bus Power**

- Yes

**Passes PE Bus**

- Yes

**Status Indicators**

- 2, indicates output is on

**Agency Approvals**

- UL/cUL 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.

Insert unit using tongue and groove molded guide and press gently until it becomes firmly seated on DIN rail.

Where applicable, rotate Locking Wheel to lock Bus Coupler

Align tab with molded guide

Where applicable, rotate Locking Wheel to unlock Bus Coupler

Firmly pull DIN Rail Release Tab to unlatch unit from rail.

Screwdriver Slot

Wire Slot

Wiring Specifications

<table>
<thead>
<tr>
<th>Connection Type</th>
<th>Spring Clamp Terminals</th>
</tr>
</thead>
<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>
</tr>
<tr>
<td>Wire Stripping Length</td>
<td>8mm</td>
</tr>
</tbody>
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Document Name | Edition/Revision | Date |
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