Bus End/Expansion Terminals

PX-901 Terminal Specifications

500V_{ms} (I/O bus/signal voltage)

Current Consumption

(from I/O Bus)

Electrical Isolation

PX-901 \$13.00 Bus End Terminal



The PX-901 (type 3) Bus End Terminal is installed at the end of a terminal assembly and is required for proper I/O Bus communication.

PX-902 \$55.00 Bus Expansion End Terminal



PX-902 Terminal Specifications I/O Bus power (approx. 6V) Power Source **Current Consumption** 70mA (from I/O Bus) 500V_{ms} Electrical Isolation (I/O bus/field potential) Heat Dissipation 1W max Status Indicators None Number of Expansion **Coupler Terminals** 31 max. (Using PX-903) Supported Configuration Automatic Maximum Distance Between Each 16.5 ft. (5m) Expansion Coupler **Connection Type** Ethernet. RJ45 Shielded, Twisted Pair, Cat5e **Recommended Cable** Used only with Bus Placement Coupler, replaces a PX-901 End Terminal

PX-901 General S	pecifications
Operating Temp	32 to 131 °F (0 to 55 °C)
Storage Temp	-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	50g
Dimensions (WxHxD)	12 x 100 x 68.8 mm (0.47 x 3.94 x 2.71 in)
Adjacent Mounting on Bus Terminals with Power Contact	Yes
Adjacent Mounting on Bus Terminals without Power Contact	Yes
Passes Terminal Bus Power	No
Passes PE Bus	No
Agency Approvals*	UL/cUL File No. E157382, CE

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

PX-902 General	Specifications
Operating Temp	32 to 131 °F (0 to 55 °C)
Storage Temp	-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
Noise Immunity	Conforms to EN 61000-6-2
Protection Class	IP20
Weight	146g
Dimensions (WxHxD)	27.5 x 100 x 68.8 mm (1.08 x 3.94 x 2.71 in)
Adjacent Mounting on Bus Terminals with Power Contact	Yes
Adjacent Mounting on Bus Terminals without Power Contact	Yes
Passes Terminal Bus Power	No
Passes PE Bus	No
Agency Approvals*	UL/cUL File No. E157382, CE

* To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

The PX-902 (type 3) Bus Expansion End Terminal enables expansion of terminal assemblies. The PX-902 is installed at the end of a PX-MOD or PX-TCP1 assembly and connects the I/O Bus to a PX-903 Bus Expansion Coupler Terminal via the RJ45 port. No configuration is required.

System Installation and Removal

Bus Coupler and Bus Terminal Installation

Bus Coupler Installation:

 Attach a Bus Coupler by snapping it onto 35mm DIN rail and securing it into position using the DIN rail locking wheel (where applicable) located on the left side of the coupler.

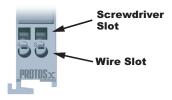
Bus Terminal Installation:

 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.

Wiring Connections

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.





4	Align tab with molded guide
	Wiring Specifications

Wiring Specifications		
Connection Type	Spring Clamp Terminals	
Wire Gauge	28–14 AWG (0.08–2.5 mm ²⁾	
Screwdriver Width	2.5 mm (0.10 in) such as P/N TW-SD-MSL-2	
Wire Stripping Length	8mm	

* For Thermocouple terminals, thermocouple extension wire is recommended

Removing Bus Coupler and Bus Terminals

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. Where applicable, rotate Locking Wheel to unlock Bus Coupler

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



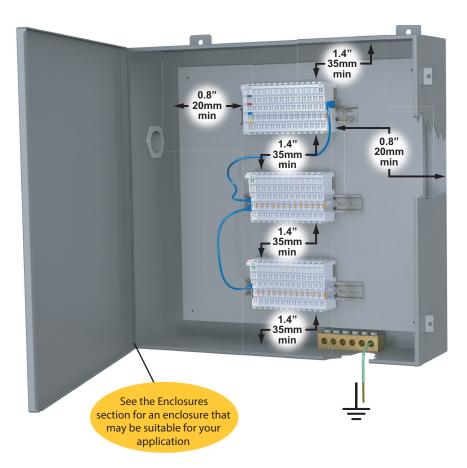
Firmly pull DIN Rail Release Tab to unlatch unit from rail.

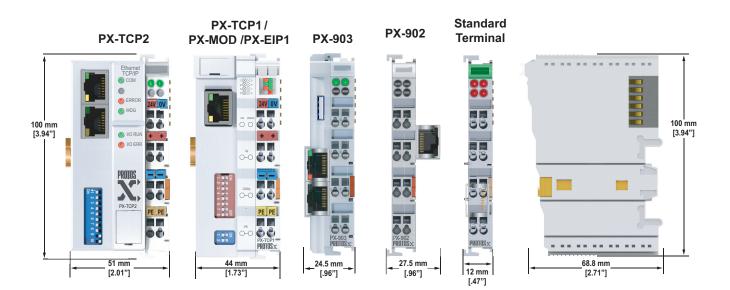
Installation Considerations

Terminal Dimensions and Spacing Requirements

Use the following diagrams to make sure the Protos X system can be installed in your application. Protos X terminals require 35mm DIN rail for mounting; there are no orientation restrictions.

To ensure proper airflow for cooling purposes, units should be spaced, at a minimum, as shown. It is also important to check the Protos X dimensions against the conditions required for your application.





Installation Considerations

Terminal Types

