Bus End/Expansion Terminals

PX-901 \$;0?f1:

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 \$;0?f2:

Bus Expansion End Terminal



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

PX-901 Terminal Specifications	
Current Consumption (from I/O Bus)	None
Electrical Isolation	500Vms (I/O bus/signal voltage)

PX-901 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/ EN 60068-2-29	
Noise Immunity	Conforms to EN 61000-6-2/ EN61000-6-4	
Protection Class	IP20	
Weight	50g (1.7 oz)	
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	

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

Agency Approvals*

UL/cUL File No. E157382,

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

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 (5.1 oz)	
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	

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System Installation and Removal

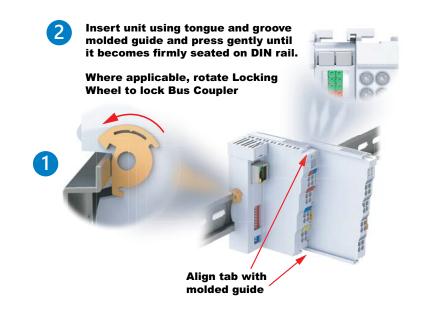
Bus Coupler and Bus Terminal Installation

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.

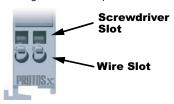
Bus Terminal Installation:

- 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.





Wiring Specifications		
Connection Type	Spring Clamp Terminals	
Wire Gauge	28-14 AWG (0.08-2.5 mm2)	
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



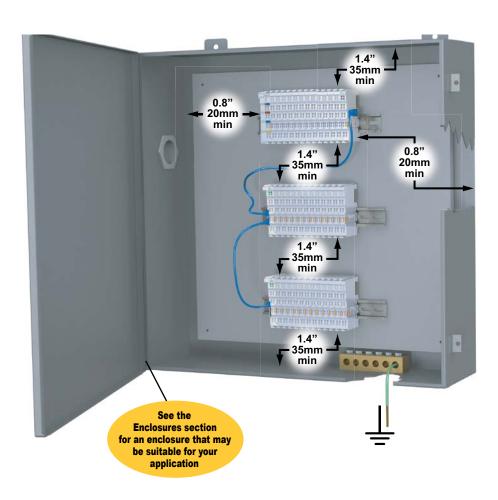
to unlatch unit from rail.

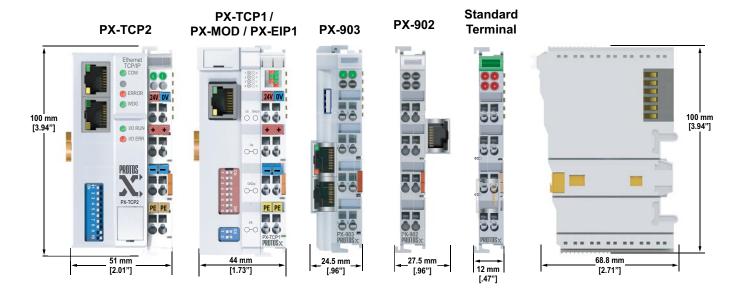
Installation Considerations

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

