Terminal Specifications

8

Field wired

Sourcina

is ON

Outputs Per Terminal

Output Type

Status Indicators

Commons Per Terminal

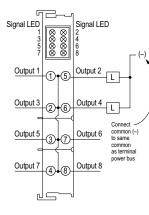
1-800-633-0405 **Discrete Output Terminals**

PX-248 \$91.00

Eight-point, 0.5 A, 24VDC **Discrete Output Terminal**

The PX-248 (type 1) DC Output Terminal provides eight 24VDC 0.5 A short-circuit protected sourcing outputs with LED status.

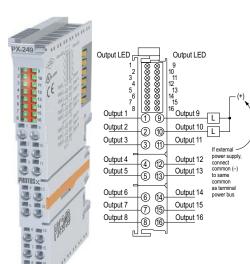




PX-249 \$126.00

Sixteen-point, 0.5 A, 24VDC Discrete Output Terminal

The PX-249 (type 1) DC Output Terminal provides sixteen 24VDC 0.5 A short-circuit protected sinking outputs with LED status.



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	70g (2.4 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, DC only	
Adjacent Mounting on Bus Terminals without Power Contact	No	
Passes Terminal Bus Power	Yes	
Passes PE Bus	No	
Agency Approvals*	UL/cUL File No. E157382, CE	

Output Data Bytes Used 1 byte 24VDC provided via **Output Power Source** terminal power bus **Current Consumption** 60mA + load typical (from Load Voltage) **Operating Voltage** 24VDC (-15%/+20%) 0.5 A per channel Maximum Load Current (Short-Circuit Protected) **On Voltage Drop** 0.4 VDC @ 0.5 A Maximum Leakage Current 300mA Maximum Inrush Current 1.5 A Max. Short-Circuit Voltage 35V Resistive, inductive, Load Type lamp **Current Consumption** 18mA typical (from I/O Bus) **Reverse Voltage Protection** Yes 500Vms Electrical Isolation (I/O bus/field potential) Heat Dissipation 1W max OFF to ON Response 100ms max ON to OFF Response 20ms max 8, indicates output

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

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	
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Adjacent Mounting on Bus Terminals without Power Contact	No	
Passes Terminal Bus Power	Yes	
Passes PE Bus	No	
Agency Approvals*	UL/cUL File No. E157382, CE	

Terminal Spec	ifications	
Outputs Per Terminal	16	
Commons Per Terminal	Field wired	
Output Type	Sinking	
Output Data Bytes Used	2 bytes	
Output Power Source	Requires external 24VDC power source	
Current Consumption (from Load Voltage)	35mA + load typical	
Operating Voltage	24VDC (-15%/+20%)	
Maximum Load Current	0.5 A per channel (Short-Circuit Protected)	
On Voltage Drop	0.12 VDC @ 0.5 A	
Maximum Leakage Current	75mA	
Maximum Inrush Current	3.5 A	
Max. Short-Circuit Voltage	36V	
Load Type	Resistive, inductive, lamp	
Current Consumption (from I/O Bus)	45mA typical	
Reverse Voltage Protection	Yes	
Electrical Isolation	500Vms (I/O bus/field potential)	
Heat Dissipation	1W max	
OFF to ON Response	0.45 ms	
ON to OFF Response	3.3 ms	
Status Indicators	16, indicates output is ON	
*To obtain the most current agency approval information,		

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

Universal Field I/O

tFED-35

System Installation and Removal

Bus Coupler and Bus Terminal Installation

Bus Coupler Installation:

1. 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.

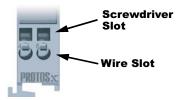
Insert unit using tongue and groove molded guide and press gently until it becomes firmly seated on DIN rail.

Where applicable, rotate Locking Wheel to lock Bus Coupler

Align tab with molded guide

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	
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



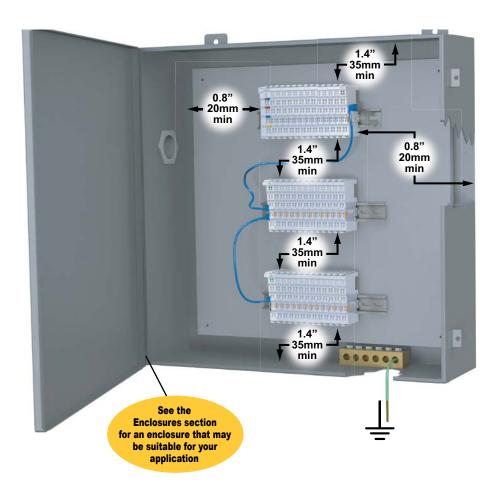
Firmly pull DIN Rail Release Tab to unlatch unit from rail.

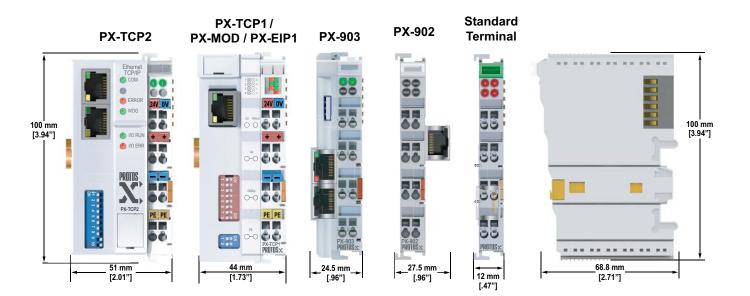
1-800-633-0405 Installation Considerations

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.





1-800-633-0405 Installation Considerations

Terminal Types

