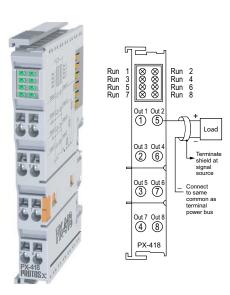
Analog Voltage Output Terminals

PX-418 \$347.00

Eight-channel, -10 to +10 VDC Analog Output Terminal

The PX-418 (type 1) Analog Output Terminal provides eight electrically isolated, -10 to +10 VDC outputs with 12-bit resolution, common ground potential, and Run LED status.



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	85g (3.0 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

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

	10	
Terminal Specifications		
Number of Channels	8	
Output Ranges	-10 to +10 VDC	
Resolution	12 bit	
Output Type	Single-ended	
Data Format	Decimal: 0-32767	
Data Bytes Consumed	PX-MOD: 16 bytes output	
	PX-TCP1/TCP2: 32 bytes out/ 32 bytes in (not used)	
Output Power Source	24VDC via terminal power bus	
Current Consumption (from Load Voltage)	20mA	
Source Load	> 5kV (short-circuit protected)	
Conversion Time	Approx. 8ms	
Accuracy	± 0.5 LSB linearity error, ± 0.5 LSB offset error ± 0.1% of the full scale value	
I/O Bus current Consumption (5V)	20mA	
Electrical Isolation	500Vms (I/O Bus/signal voltage)	
Heat Dissipation	1W max	
Status Indicators	8, see LED Status chart	

LED Status			
LED	LED ON	LED OFF	
Green LED: RUN	Normal Operation	Watchdog error if no data transmitted within WD set time.	

System Installation and Removal

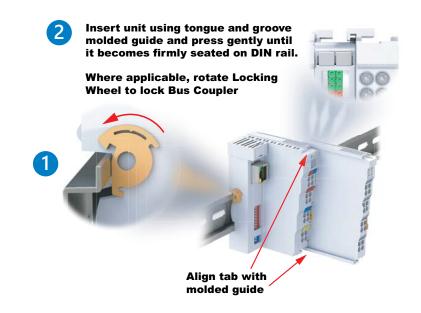
Bus Coupler and Bus Terminal Installation

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.

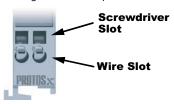
Bus Terminal Installation:

- 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



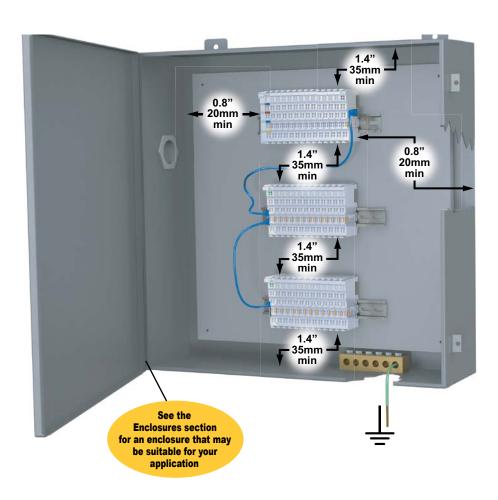
to unlatch unit from rail.

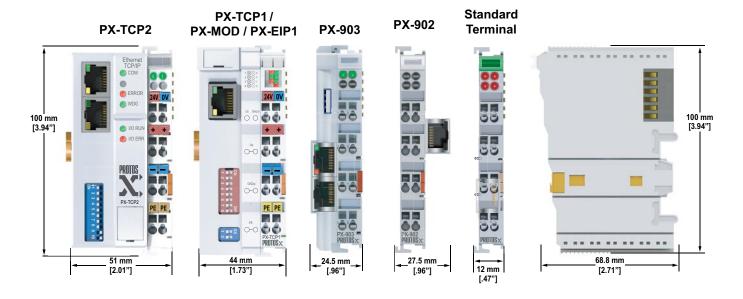
Installation Considerations

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

