# **Discrete Relay Output Terminals**

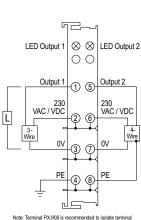
PX-272-1

\$97.00

### Two-point, 0-230 VAC/VDC Discrete Solid State Relay Output Terminal

The PX-272-1 (type 2) Solid State Relay Output Terminal provides two 230 VAC/VDC 0.3 A outputs with LED status. For use with 4-wire, 3-wire and 2-wire devices.





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	55g (1.9 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, 230 VAC/VDC only
Adjacent Mounting on Bus Terminals without Power Contact	No
Passes Terminal Bus Power	Yes
Passes PE Bus	Yes
Agency Approvals*	UL/cUL File No. E157382, CE

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

Terminal Specif	ications
Outputs Per Terminal	2
Commons Per Terminal	2
Output Type	Solid State Relay (DC sourcing only)
Output Data Bytes Used	1/4 byte (2 bits)
Output Power Source	230 VAC/VDC provided via terminal power bus
Current Consumption (from Terminal Power Bus)	(ON resistance max 100mV) + load
Operating Voltage	0 to 230 VAC/VDC (DC 100Hz)
Maximum Load Current	0.3 A per point
Maximum Leakage Current	< 1mA (off state)
Maximum Inrush Current	0.5 A for 20s, 1.5 A for 100ms
Contact Resistance	2.1 V, typical 3.2 V, max.
Surge Voltage Protection	From 400VAC
Load Type	Resistive, inductive
Current Consumption (from I/O Bus)	10mA
Electrical Isolation	500Vms (I/O bus/field potential) 2500VDC (1 min.)
Heat Dissipation	1W max
Switch-ON Time	4 to 6 ms
Switch-OFF Time	0.05 to 0.1 ms
Switch-ON Delay	320ms
Switch-OFF Delay	6.2 ms
Status Indicators	2, indicates output is ON

### System Installation and Removal

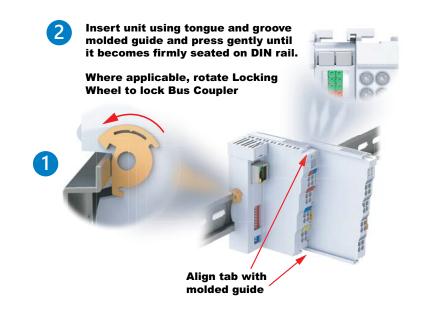
# Bus Coupler and Bus Terminal Installation

#### **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.

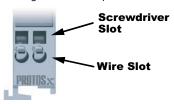
#### **Bus Terminal Installation:**

- 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	

<sup>\*</sup> 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



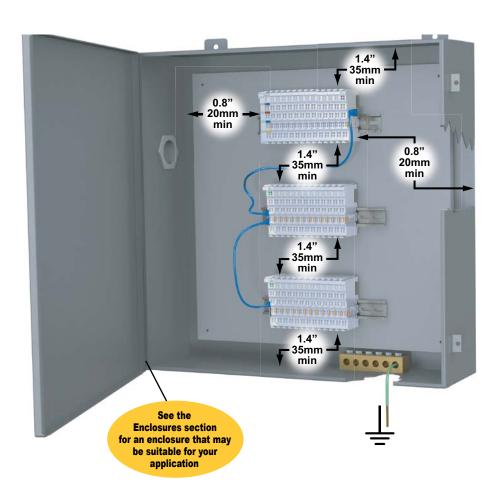
to unlatch unit from rail.

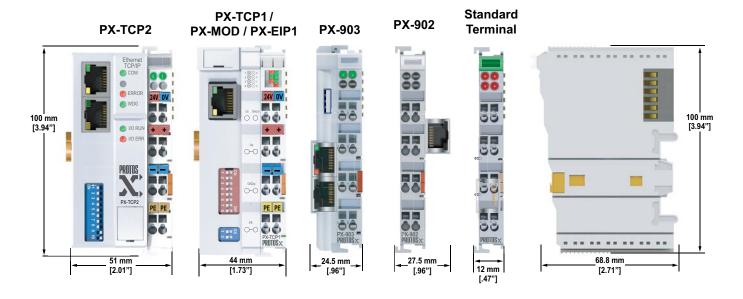
# **Installation Considerations**

# 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**

