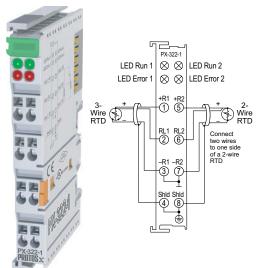
RTD Input Terminals

PX-322-1 \$00?eu:

Two-channel RTD Input Terminal

The PX-322-1 (type 3) RTD Input Terminal provides two PT100 RTD inputs with full linearization and LED status.



General Specifications		
Operating Temp	0 to 55 °C	
Storage Temp	-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	
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.

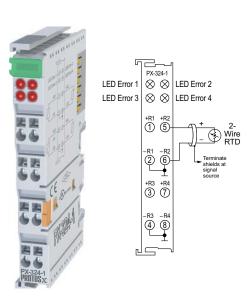
Terminal Specifications		
Number of Channels	2	
Range	-200 to 850 °C	
Resolution	0.1 °C per digit	
Input Type	PT100	
Data Bytes Consumed	PX-MOD: 4 bytes input	
	PX-TCP1/TCP2: 8 bytes in/ 8 bytes out (not used)	
Connection Method	2-wire or 3-wire (3-wire default)	
Power Supply	Via I/O Bus	
Conversion Time	Approx. 250ms	
Measuring Current	5mA typical	
Linearity Error	< ± 1°C	
Current Consumption (from I/O Bus)	60mA	
Electrical Isolation	500Vms (I/O bus/field potential)	
Heat Dissipation	1W max	
Status Indicators	4, see LED Status chart	

LED Status			
LED	LED ON	LED OFF	
Green LED: RUN	Normal Operation	Watchdog-timer overflow if no data transmitted within WD set time.	
Red LED: ERROR	Sensor fault, e.g. broken wire	No Error	

PX-324-1 \$00?ev:

Four-channel RTD Input Terminal

The PX-324-1 (type 3) RTD Input Terminal provides four PT100 RTD inputs with full linearization and LED status.



General Specifications	
Operating Temp	0 to 55 °C
Storage Temp	-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
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.

Terminal Specifications		
Number of Channels	4	
Range	-200 to 850 °C	
Resolution	0.1 °C per digit	
Input Type	PT100	
Data Bytes Consumed	PX-MOD: 8 bytes input	
	PX-TCP1/TCP2: 16 bytes in/ 16 bytes out (not used)	
Connection Method	2-wire	
Power Supply	Via I/O Bus	
Conversion Time	Approx. 250ms	
Measuring Current	5mA typical	
Linearity Error	< ± 1°C	
Current Consumption (from I/O Bus)	60mA	
Electrical Isolation	500Vms (I/O bus/field potential)	
Heat Dissipation	1W max	
Status Indicators	4, Red: sensor fault	

System Installation and Removal

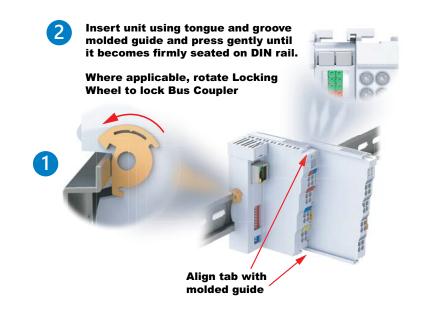
Bus Coupler and Bus Terminal Installation

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.

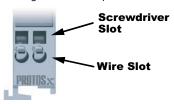
Bus Terminal Installation:

- 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.

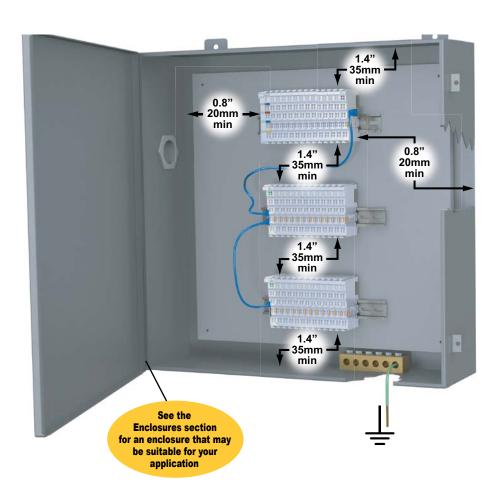
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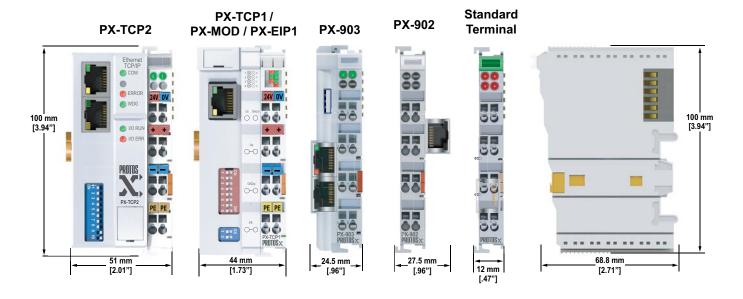
Installation Considerations

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.

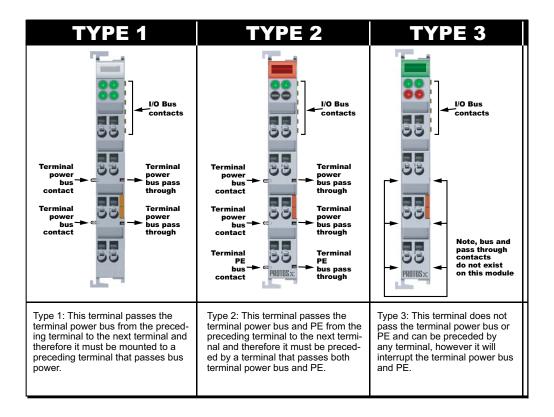


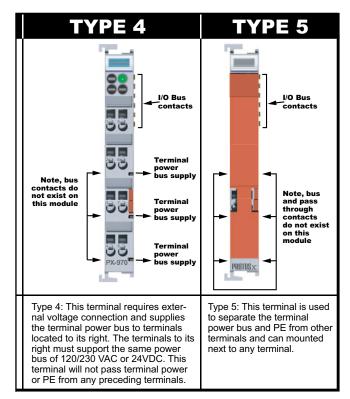


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Installation Considerations

Terminal Types





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