PTP LEGACY INTERFACE (PLX) for SER PLX-5V / PLX-24V





⚠ DANGER ⚠

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Only qualified workers should install this equipment. Such work should be performed only after reading this entire set of instructions. NEVER work alone.
- Before performing visual inspections, tests, or maintenance on this equipment, disconnect all sources of electric power. Assume that all circuits are live until they have been completely de-energized, tested, and tagged. Pay particular attention to the design of the power system. Consider all sources of power, including the possibility of backfeeding.
- Apply appropriate personal protective equipment (PPE) and follow safe electrical practices. For example, in the USA, see NFPA 70E.
- Turn off all power supplying the equipment in which the device is to be installed before installing and wiring.
- Always use a properly rated voltage sensing device to confirm that power is off. Beware of potential hazards, wear personal protective equipment, and carefully inspect the work area for tools and objects that may have been left inside the equipment.
- The successful operation of this equipment depends upon proper handling, installation, and operation. Neglecting fundamental installation requirements may lead to personal injury as well as damage to electrical equipment or other property.

Failure to follow these instructions can result in serious injury or death.

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INTRODUCTION

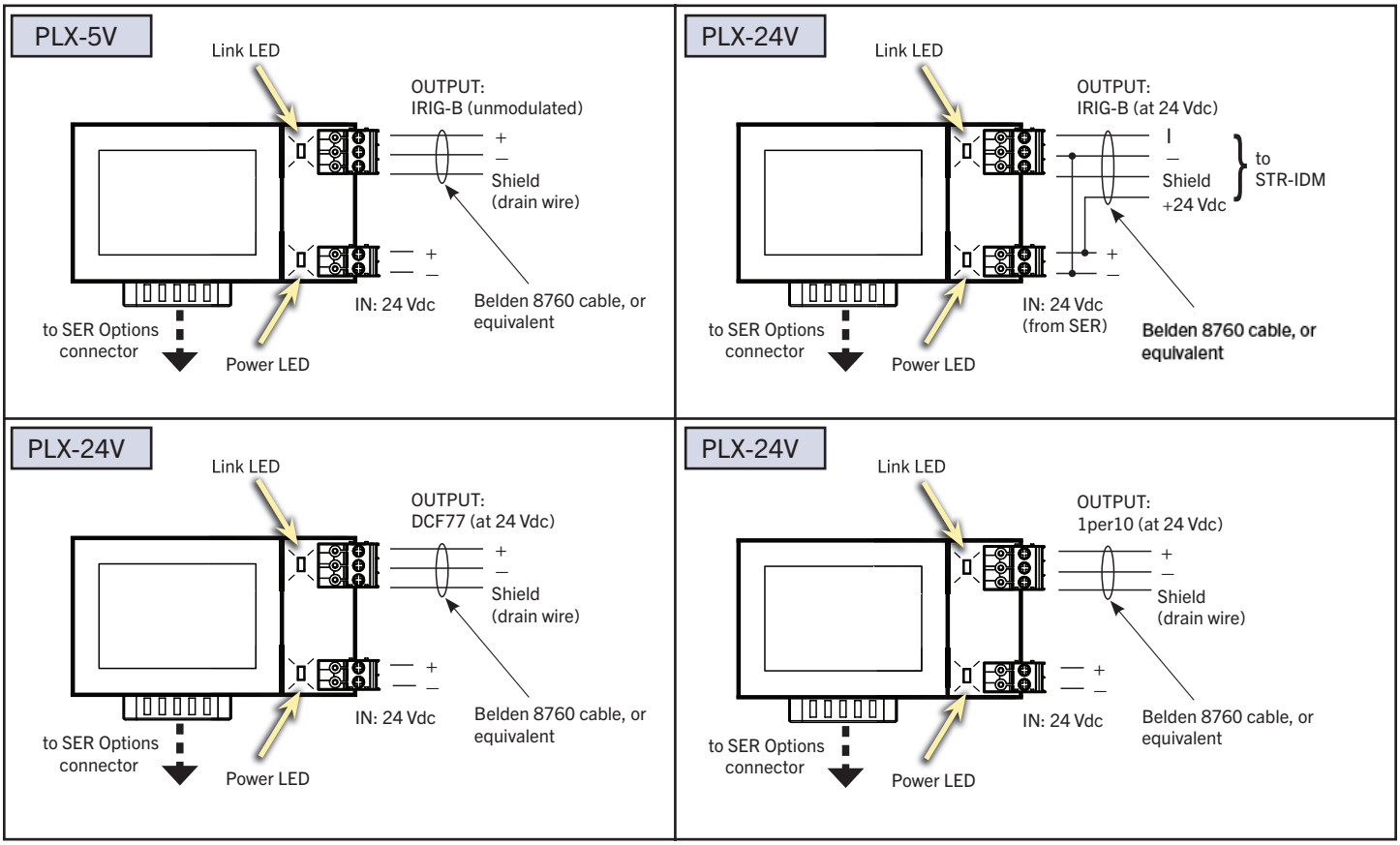
Note: The specific PLX model (PLX-5V or PLX-24V) determines the output signal's nominal voltage: 5 Vdc or 24 Vdc, respectively. The output protocol (IRIG-B, DCF77 or 1per10) depends on the time-sync output setting configuration of the Sequence of Events Recorder.

The Trystar PTP Legacy Interface (PLX-5V / PLX-24V) is a wiring adapter for the Sequence of Events Recorder to output a legacy time protocol to other devices. The adapter fits the "Options" port (DB15 connector) of the SER-3200, SER-2408 or SER-32e and facilitates wiring of 5V or 24V signals via a screw-type terminal, suitable for power equipment wiring.

The PLX also includes diagnostics LEDs to aid system commissioning and troubleshooting. A link indicator LED flashes (flickers) according to the frequency of the time protocol output (IRIG-B: 100 Hz, DCF77: 1PPS, 1per10: one pulse per 10 seconds). A second LED indicates the presence of 24 Vdc control power input.

WIRING

Both PLX models (PLX-5V and PLX-24V) require 24 Vdc control power input, supplied from a separate 24 Vdc source or jumpered from the host SER (as shown).



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SPECIFICATIONS

Technical Specifications		
Diagnostics LEDs	Link - Flashing for IRIG-B, DCF77 or 1per10 output Power - Indicates control power	
Control Power (IN)	24 Vdc (e.g., wired from host)	
Mounting	Connects to SER Options Connector (DB-15)	
Environmental	-20°C to +70°C ambient operating temperature. -40°C to +85°C storage temperature. Humidity 5-95% (non-condensing) at 40°C.	
	PLX-5V	**PLX-24V**
Weight	1.0 oz. (28 g)	1.5 oz. (42 g)
Dimensions (W x H x D)	2.92 x 1.72 x 0.84 in. (74 x 44 x 21 mm)	2.92 x 1.72 x 1.12 in. (74 x 44 x 28 mm)
Isolation (between 24 Vdc / signal out)	1000 Vdc min.	1500 Vdc min.
Output drive	5V, 10-ohm, +/- 75 mA drive	24V, < 1-ohm, 200 mA max (sourcing)

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