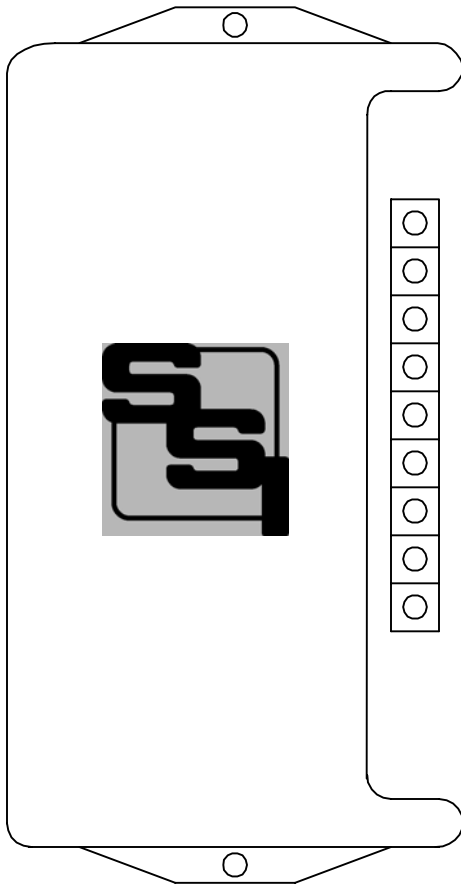


# PTR-1PS

# PULSE TRANSMITTING RELAY INSTRUCTION SHEET

*Elite Solid State*



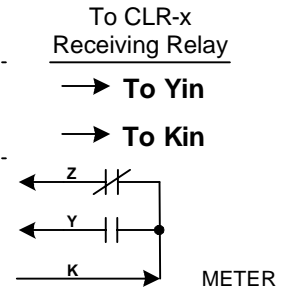
- RNG → **OUTPUT TO RECEIVING RELAY**
- TIP → (GND)

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- Z ← **INPUT FROM METER**
- Y ←
- K → +9VDC sourced to meter

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- GND ← **GND**
- NEU ← **NEU POWER SUPPLY INPUT**
- L1 ← **120V**
- L2 ← **277V**



**MOUNTING POSITION** - The PTR-1PS may be mounted in any position.

**POWER INPUT** - The PTR-1PS can be powered by 120VAC or 208 to 277VAC. Connect the **GND** terminal to the electrical system ground. Connect the Neutral lead to the **NEU** terminal. Connect the **L1** terminal to the 120VAC "Hot" lead for 120VAC operation. Connect the **L2** terminal to the 208 or 277 "Hot" lead.

**METER CONNECTIONS** - The PTR-1PS' "Kin", "Yin" and "Zin" input terminals should be connected to the meter's "K", "Y" and "Z" terminals: "Kin" to "K", "Yin" to "Y", and "Zin" to "Z". The PTR-1PS' "K" terminal provides the +9VDC wetting voltage to the meter's "K" terminal. The PTR-1PS may be operated in the two wire mode by using Kin and Yin only.

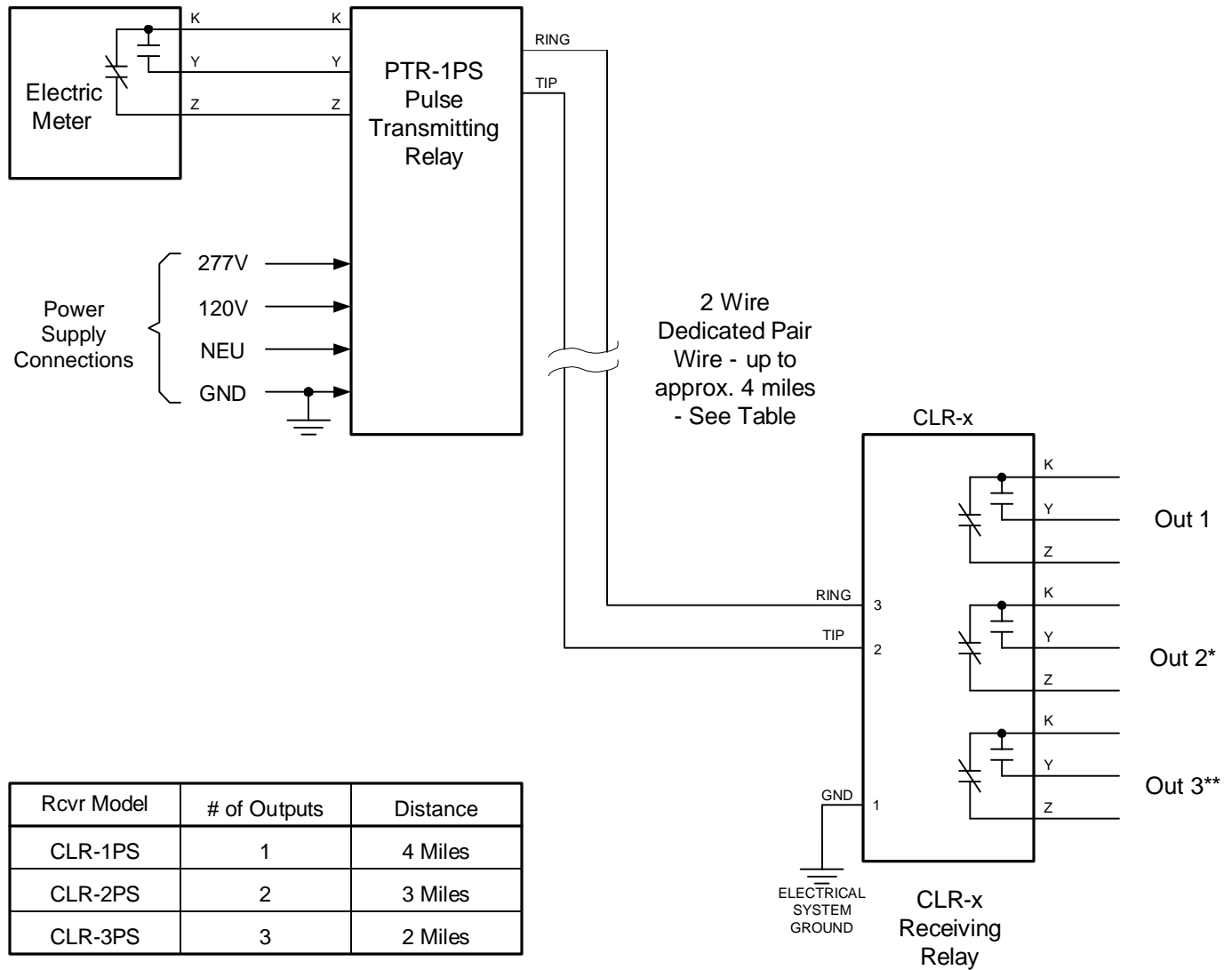
**OUTPUTS** - Connect two dedicated wires to the TIP and RING output terminals provided on the PTR-1PS. Transient suppression for the output provided internally. The output uses a switched polarity current loop of +/-25VDC (max) to switch a pulse receiving relay, up to four miles away using standard phone company wires or a dedicated pair of wires. Larger wire will increase the distance pulses can be transmitted.



## SOLID STATE INSTRUMENTS

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# PTR-1PS System Wiring Diagram



Operation: The PTR-1PS contains a +/-15 to 25VDC current loop for long distance pulse transmission and uses a dedicated pair of wires. As the PTR-1PS' KYZ input alternates from one closure to another, the current loop polarity reverses causing all output relays to switch in the CLR-x Receiving Relay. Maximum distance of transmission decreases with the increased number of outputs on the receiving relay. Maximum distance will also increase as wire size increases.

\* CLR-2 Only

\*\* CLR-3 Only

PTR-1PS to CLR-x WiringDiagram.vsd

PTR-1PS Pulse Transmitting Relay Wiring Diagram		REVISIONS	
		NO.	DATE
DATE ORIGINAL	SCALE		
5/27/11	N/A		
LATEST REVISION	JOB NO.	CHECKED	DRAWN
			WHB

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