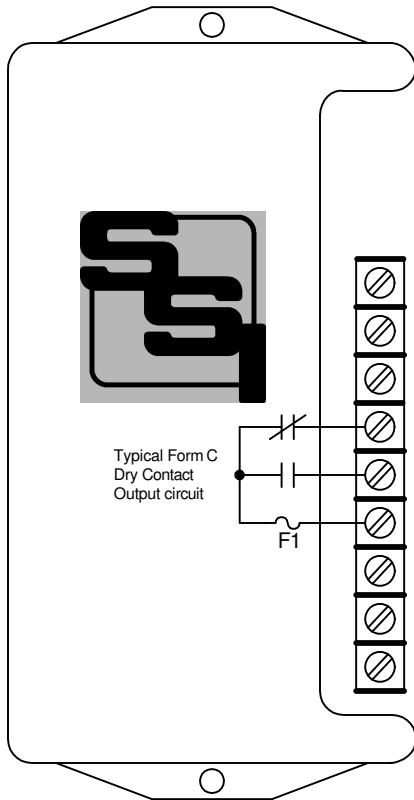


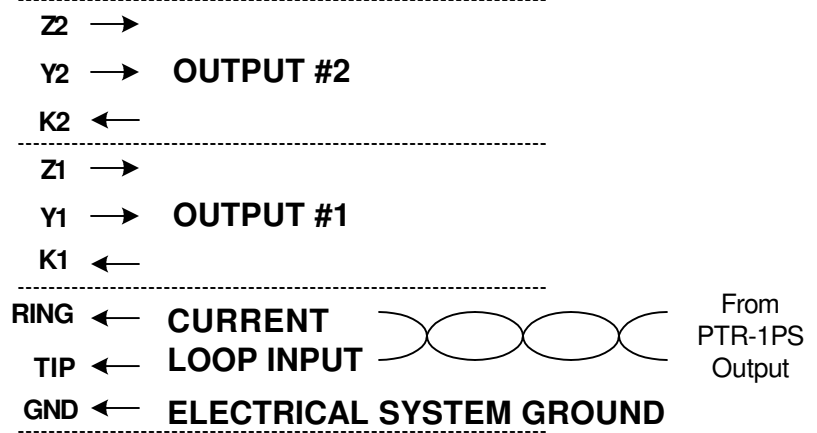
# CLR-2PS

*Elite Solid State*

# CURRENT LOOP RELAY INSTRUCTION SHEET



**NOTE** - The CLR-2PS replaces the RPR-2-SP4 and the CLR-2-S2.

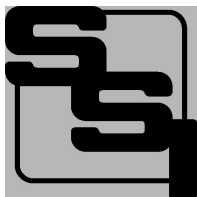


**MOUNTING POSITION** - The CLR-2PS may be mounted in any position.

**INPUT** - The CLR-2PS is powered by a +/-24VDC (nominal) current loop from a PTR-1PS Pulse Transmitting Relay. No other power supply to the CLR-2PS is necessary. Connect the CLR-2PS' "RING" terminal to the "RING" output terminal wire of the PTR-1PS. Connect the "TIP" terminal to the "TIP" output terminal wire of the PTR-1PS. The current loop will alternately switch the inputs of the CLR-2PS each time the Yin or Zin terminals are connected to the Kin terminal of the meter. A connection (closure) on the K-Y input of the PTR-1PS results in a closure of the K-Y contacts on the CLR-2PS' outputs. A K-Z closure results in a closure of the K-Z contacts on the CLR-2PS. MOV transient protection on the input is provided internally. Connect the GND terminal to electrical system ground.

**FUSES** - The fuses are type 3AG and may be up to 1/2 Amp in size. Two 1/2 Amp fuses (F1 & F2) are supplied standard with the unit unless otherwise specified.

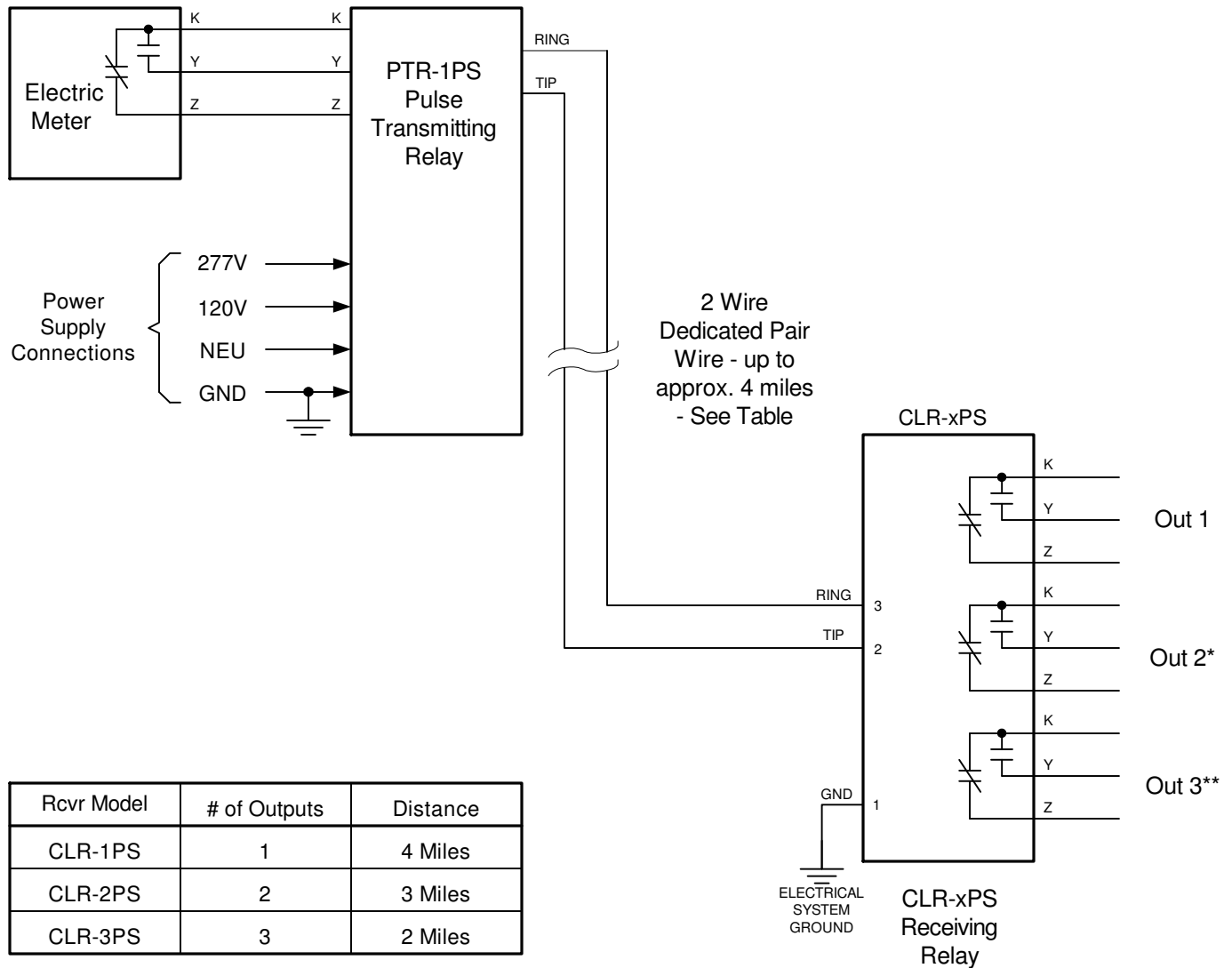
**OUTPUTS** - Two 3-wire isolated outputs are provided on the CLR-2PS, with output terminals K1, Y1 & Z1 and K2, Y2, & Z2. MOV transient voltage suppression for the contacts of the solid-state relays is provided internally.



## SOLID STATE INSTRUMENTS

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# PTR-1PS/CLR-xPS System Wiring Diagram



Operation: The PTR-1PS contains a +/-15 to 36VDC 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 the other, the current loop polarity reverses causing all output relays to switch in the CLR-xPS 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-2PS Only  
 \*\* CLR-3PS Only

PTR-1PS to CLR-xPS WiringDiagram.vsd

PTR-1PS Pulse Transmitting Relay Wiring Diagram		REVISIONS		
		NO.	DATE	DESCRIPTION
DATE ORIGINAL	SCALE			
12/09/11	N/A			
LATEST REVISION	JOB NO.	CHECKED	DRAWN	
			WHB	

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