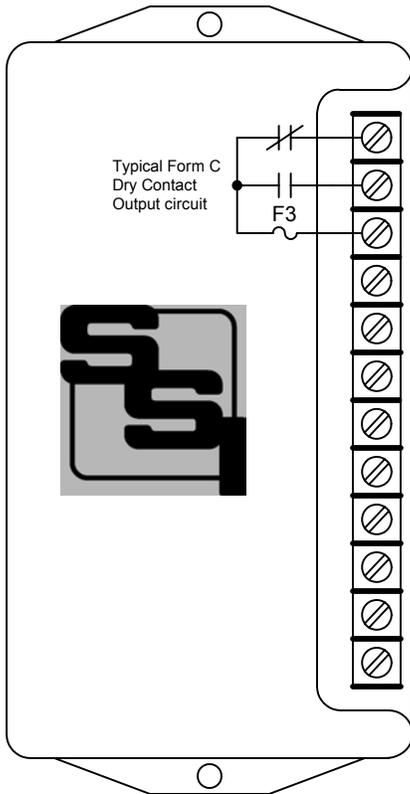


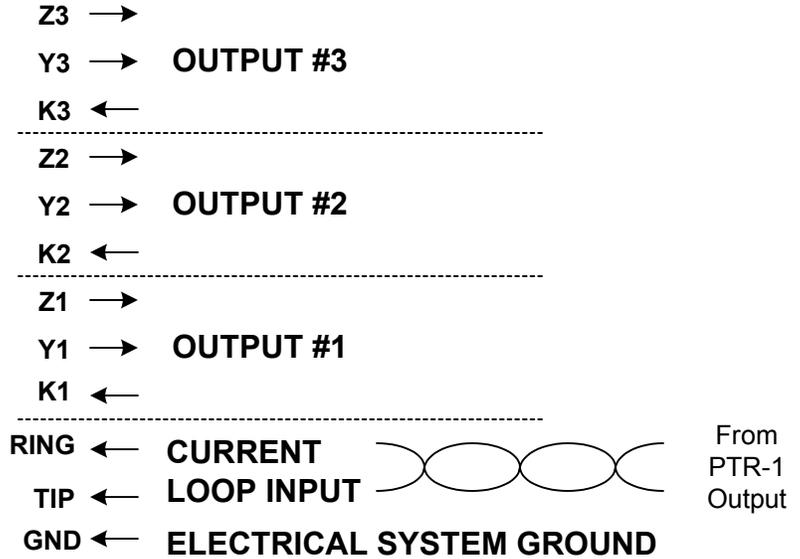
# CLR-3

# CURRENT LOOP RELAY INSTRUCTION SHEET

*S2 Standard Plus*



**NOTE** - The CLR-3-S2 replaces the RPR-3-SP4.



**MOUNTING POSITION** - The CLR-3-S2 may be mounted in any position.

**INPUT** - The CLR-3-S2 is powered by a +/-24VDC (max) current loop from a PTR-1-S2 Pulse Transmitting Relay. No other power supply to the CLR-2 is necessary. Connect the CLR-3-S2's "RING" terminal to the "RING" output terminal wire of the PTR-1-S2. Connect the "TIP" terminal to the "TIP" output terminal wire of the PTR-1-S2. The current loop will alternately switch the relay inputs on the CLR-3-S2 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-1-S2 will result in a closure of the K-Y contacts on the CLR-3-S2's outputs. A K-Z closure will result in a closure of the K-Z contacts on the CLR-3-S2. 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 1/4 Amp in size. Three 1/4 Amp fuses (F1, F2 & F3) are supplied standard with the unit unless otherwise specified.

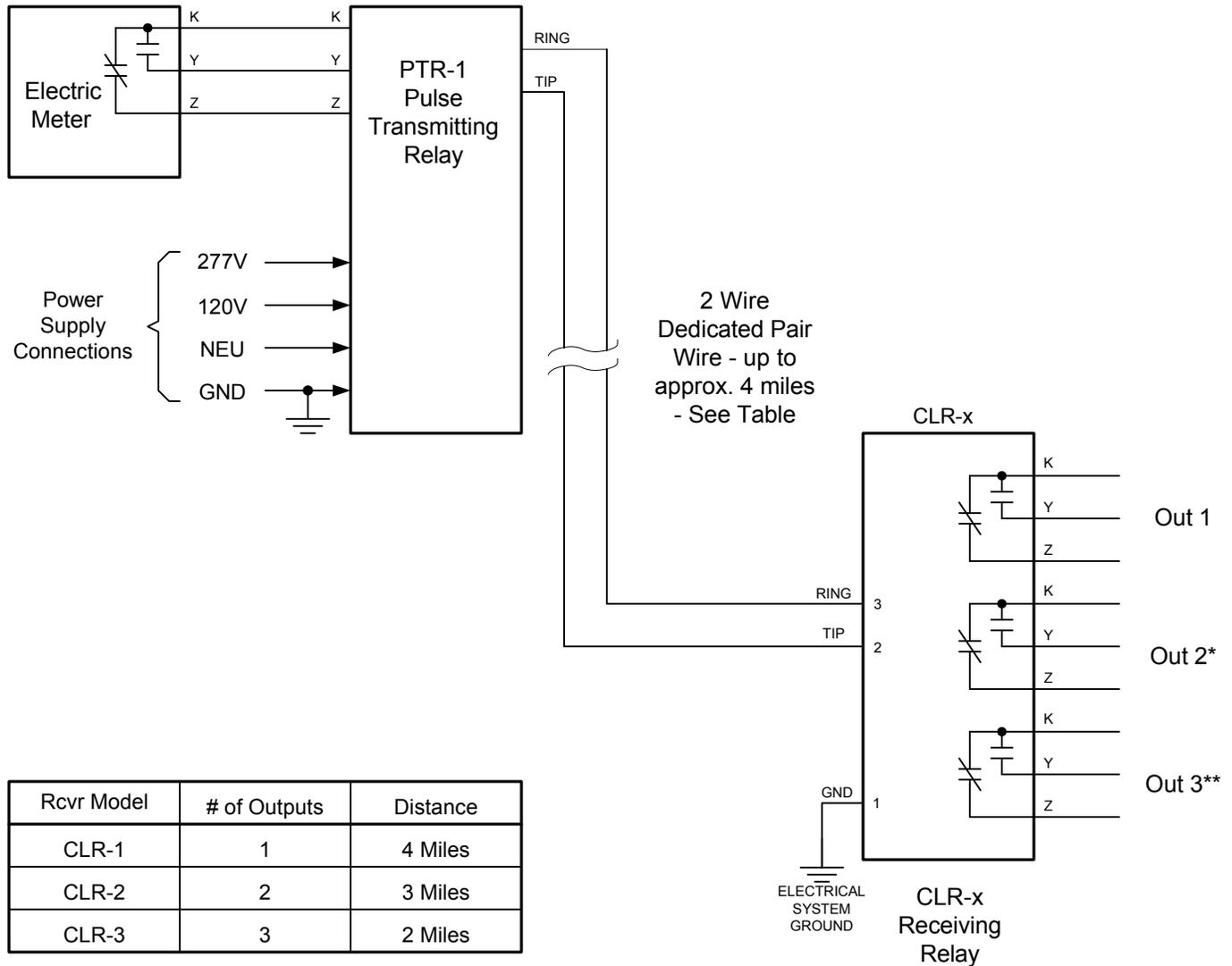
**OUTPUTS** - Three 3-wire isolated outputs are provided on the CLR-3-S2, with output terminals K1, Y1 & Z1; K2, Y2, & Z2; and K3, Y3 & Z3. MOV transient voltage suppression for the contacts of the solid-state relays is provided internally.



## SOLID STATE INSTRUMENTS

a division of Brayden Automation Corp.  
6230 Aviation Circle, Loveland, Colorado 80538  
Phone: (970)461-9600 Fax: (970)461-9605  
E-mail: support@solidstateinstruments.com

# PTR-1 System Wiring Diagram



Operation: The PTR-1 contains a +/-15 to 25VDC current loop for long distance pulse transmission and uses a dedicated pair of wires. As the PTR-1's 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-1 toCLR-x-4WiringDiagram.vsd

<p>PTR-1 Pulse Transmitting Relay Wiring Diagram</p>		<p>REVISIONS</p>	
		NO.	DATE
DATE ORIGINAL	SCALE		
4/15/07	N/A		
LATEST REVISION	JOB NO.	CHECKED	DRAWN
			WHB

**Brayden Automation Corp./ Solid State Instruments div.**  
 6230 Aviation Circle  
 Loveland, CO 80538  
 (970)461-9600  
 (970)461-9205 fax  
 www.solidstateinstruments.com