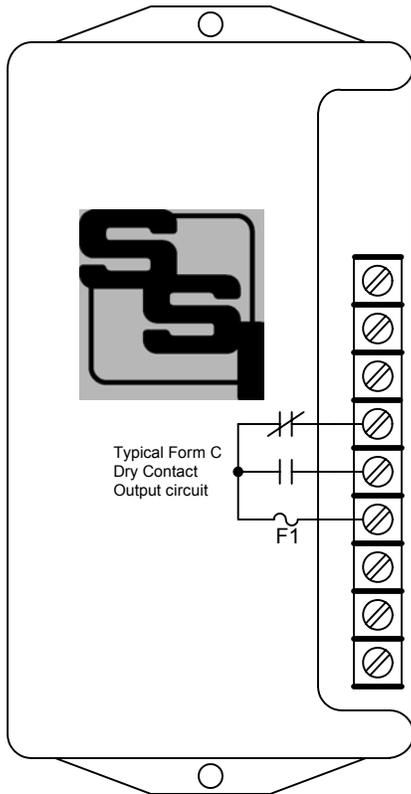


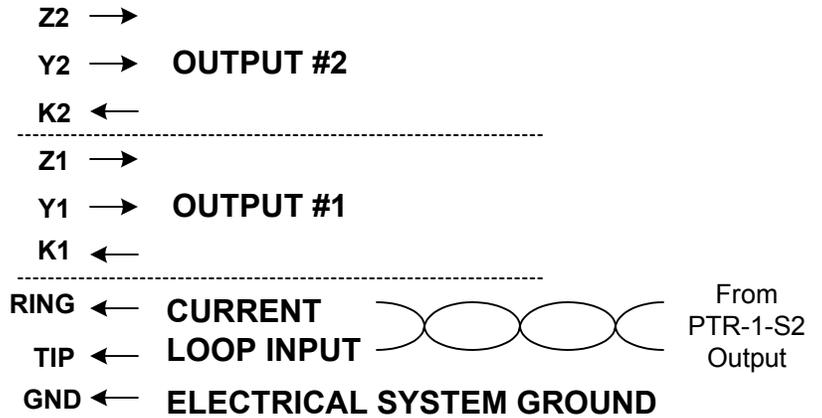
# CLR-2

# CURRENT LOOP RELAY INSTRUCTION SHEET

*S2 Standard Plus*



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



**MOUNTING POSITION** - The CLR-2-S2 may be mounted in any position.

**INPUT** - The CLR-2-S2 is powered by a +/-24VDC (max) current loop from a PTR-1-2 Pulse Transmitting Relay. No other power supply to the CLR-2-S2 is necessary. Connect the CLR-2-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 coils on the CLR-2-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-2-S2's outputs. A K-Z closure will result in a closure of the K-Z contacts on the CLR-2-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. Two 1/4 Amp fuses (F1 & F2) are supplied standard with the unit unless otherwise specified.

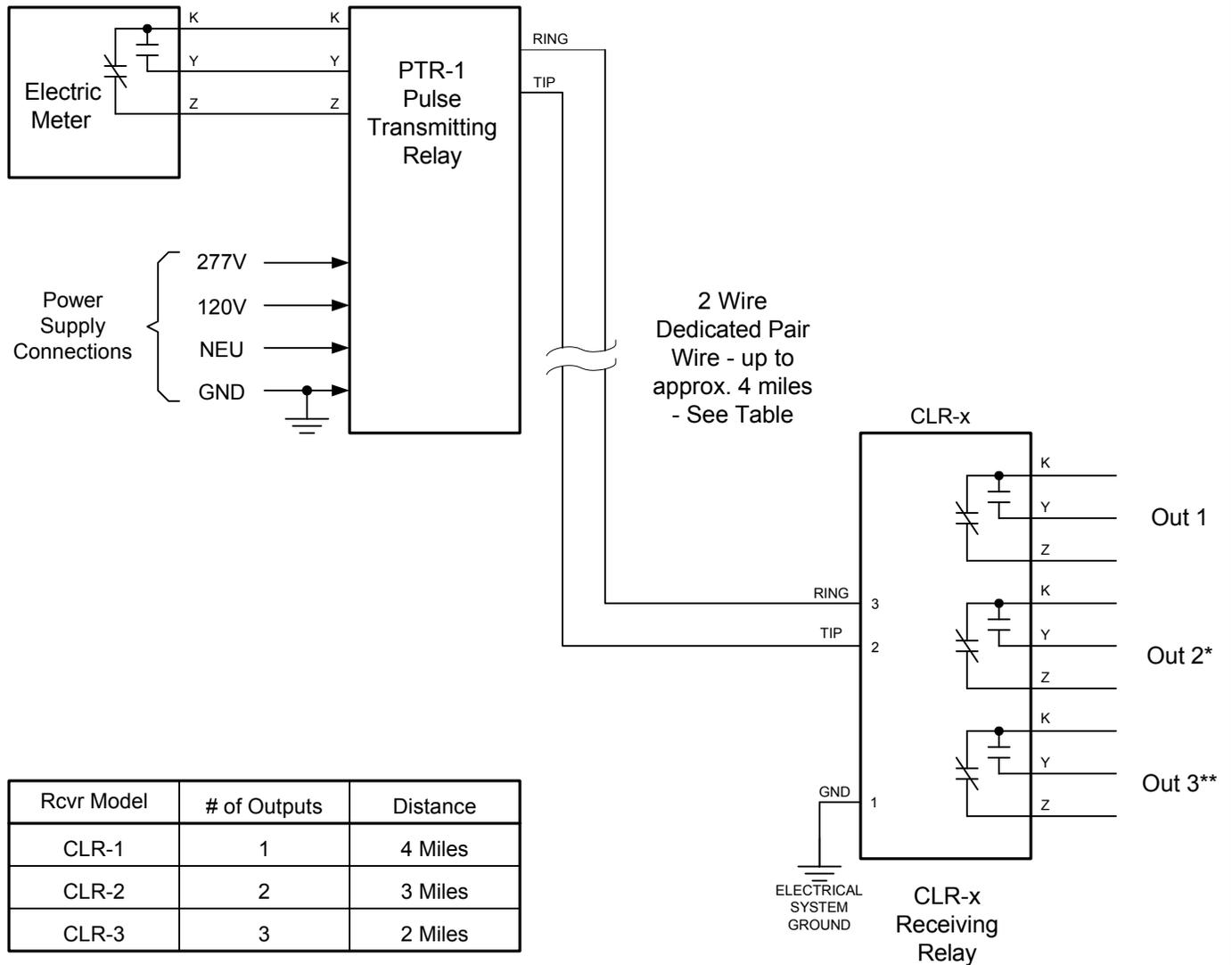
**OUTPUTS** - Two 3-wire isolated outputs are provided on the CLR-2-S2, with output terminals K1, Y1 & Z1 and K2, Y2, & Z2. MOV transient voltage suppression for the contacts of the solid-state relays is provided internally.



## SOLID STATE INSTRUMENTS

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# PTR-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

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

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