NOTE - The CLR-1PS replaces the RPR-1-SP4 and the CLR-1-S2.

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

INPUT - The CLR-1PS is powered by a +/-24VDC (nominal) current loop from a PTR-1PS Pulse Transmitting Relay. No other power supply to the CLR-1PS is necessary. Connect the CLR-1PS' "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-1PS 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-1PS' outputs. A K-Z closure results in a closure of the K-Z contacts on the CLR-1PS. 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. A 1/2 Amp fuses (F1) is supplied standard with the unit unless otherwise specified.

OUTPUT - One 3-wire isolated output is provided on the CLR-1PS, with output terminals K1, Y1 & Z1. MOV transient voltage suppression for the contacts of the solid-state relay is provided internally.
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.

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

#### PTR-1PS Pulse Transmitting Relay
- **K**: Tip
- **Z**: Ring
- **Y**: Tip
- **GND**: Ring

#### Power Supply Connections
- 277V
- 120V
- NEU
- GND

#### 2 Wire Dedicated Pair
- Wire - up to approx. 4 miles
- See Table

#### CLR-xPS Receiving Relay
- **K**: Tip
- **Z**: Ring
- **Y**: Tip
- **GND**: Ring

<table>
<thead>
<tr>
<th>Rcvr Model</th>
<th># of Outputs</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLR-1PS</td>
<td>1</td>
<td>4 Miles</td>
</tr>
<tr>
<td>CLR-2PS</td>
<td>2</td>
<td>3 Miles</td>
</tr>
<tr>
<td>CLR-3PS</td>
<td>3</td>
<td>2 Miles</td>
</tr>
</tbody>
</table>

### PTR-1PS to CLR-xPS Wiring Diagram

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