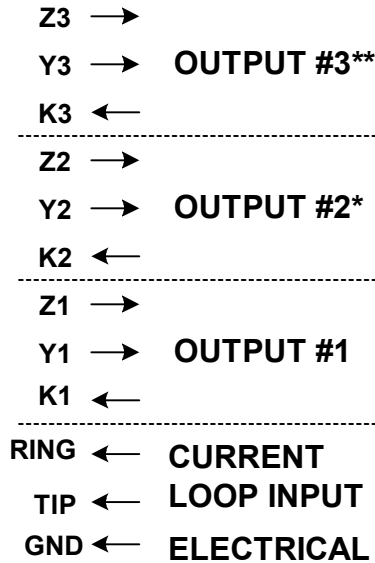
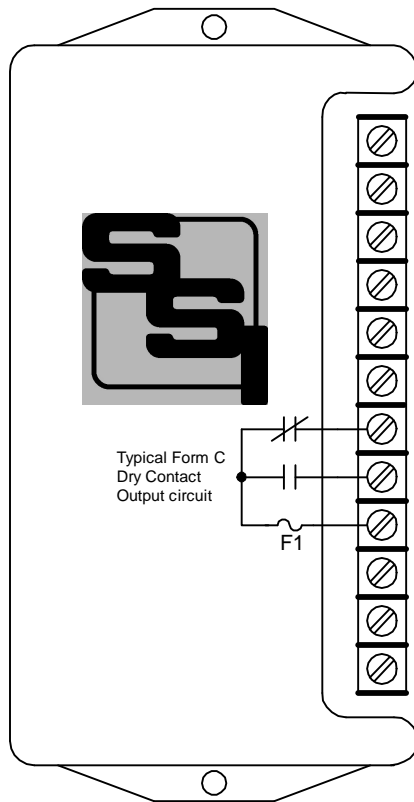


CLR Series

Elite Solid State

CURRENT LOOP RELAY INSTRUCTION SHEET



From
PTR-1PS
Output

* CLR-2PS Only

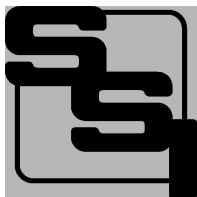
** CLR-3PS Only

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

INPUT - CLR-3PS Series relays are powered by a +/-24VDC (nominal) current loop from a PTR-1PS Pulse Transmitting Relay. No other power supply to the CLR-xPS is necessary. Connect the CLR-xPS' "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-xPS 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-xPS' outputs. A K-Z closure results in a closure of the K-Z contacts on the CLR-xPS. MOV transient protection on the input is provided internally. Connect the GND terminal to electrical system ground. GROUND **must** be connected on the CLR to prevent potentially hazardous voltages from existing if the system is left floating.

FUSES - The fuses are type 3AG and may be up to 1/2 Amp in size. Three 1/2 Amp fuses (F1, F2 and F3) are supplied standard with the unit unless otherwise specified.

OUTPUTS - Up to three 3-wire isolated outputs are provided on the CLR-xPS relay, 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

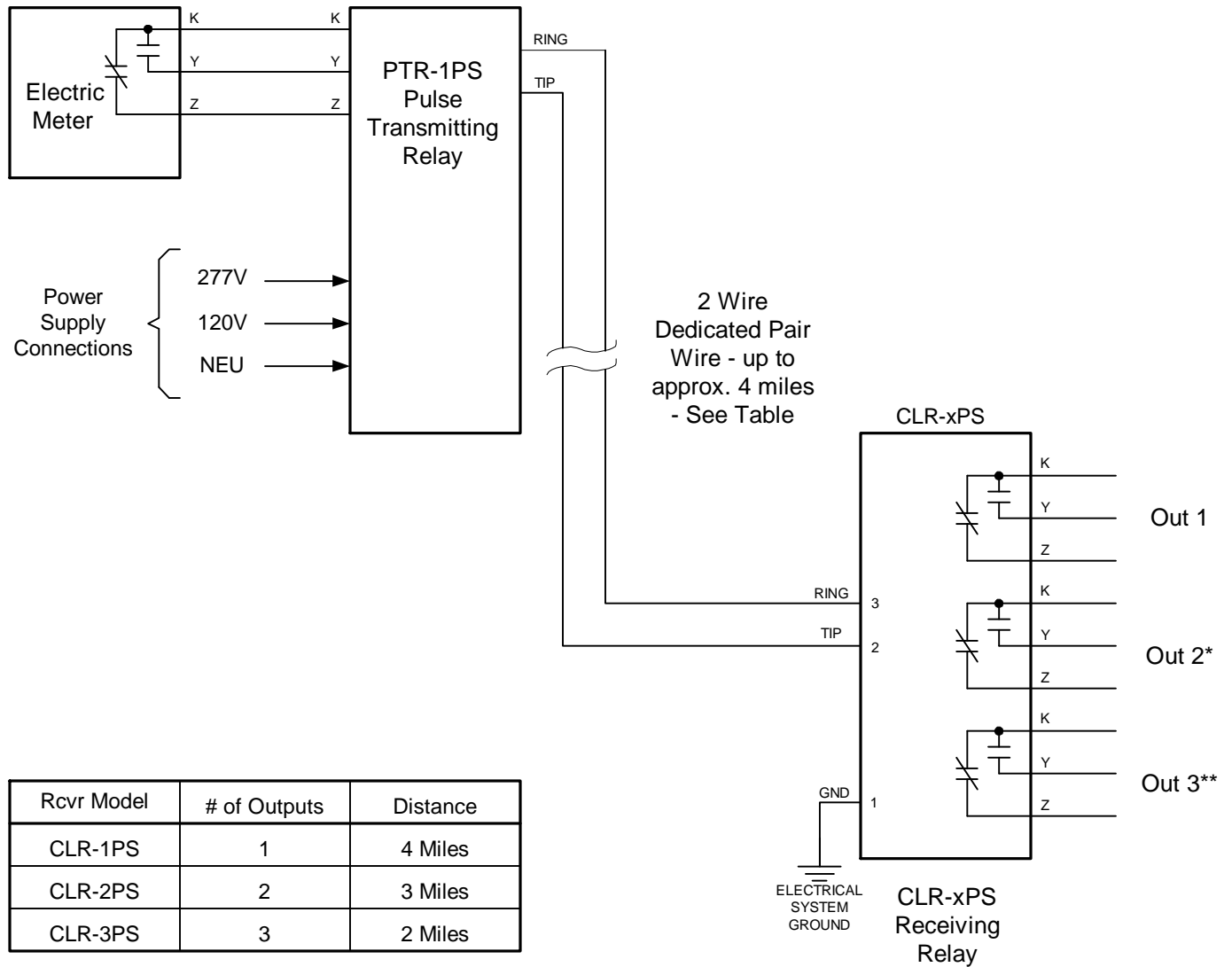
a division of Brayden Automation Corp.

6230 Aviation Circle, Loveland, Colorado 80538

Phone: (970)461-9600

E-mail: support@brayden.com

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

<p>PTR-1PS Pulse Transmitting Relay Wiring Diagram</p>		<p>REVISIONS</p>	
		NO.	DATE
DATE ORIGINAL	SCALE		
2/28/2021	N/A		
LATEST REVISION	JOB NO.	CHECKED	DRAWN
			WHB

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