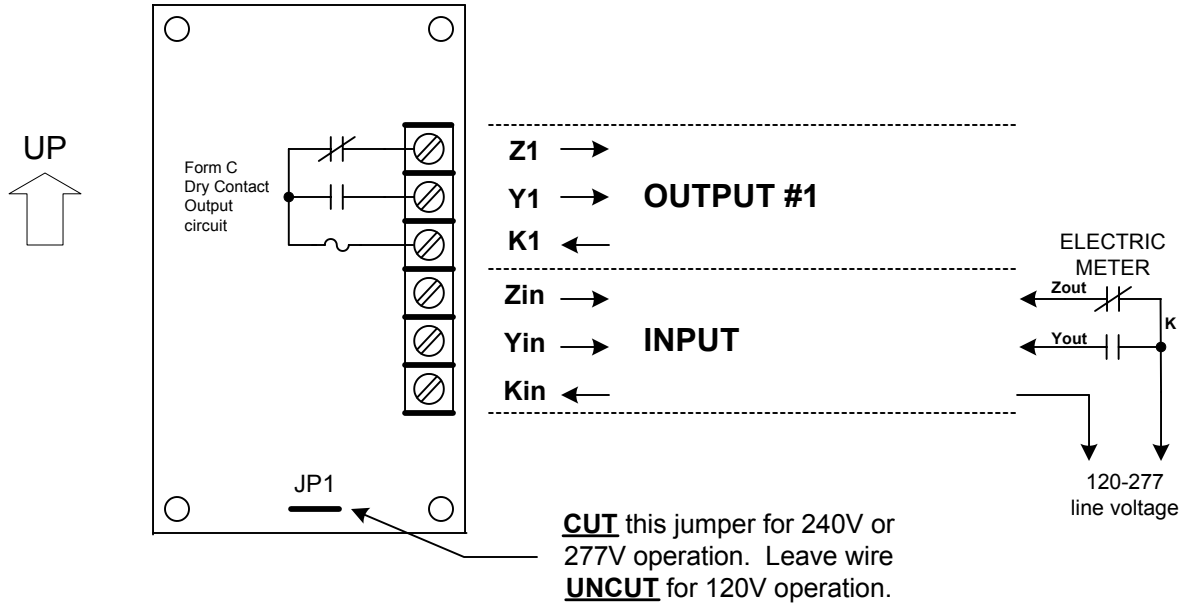
INSTRUCTION SHEET
RPR-1 PULSE ISOLATION RELAY



MOUNTING POSITION - Because the RPR-1 contains a mercury-wetted relay, it must be mounted in a vertical position to operate correctly.

INPUT - The RPR-1 is powered by an AC or DC voltage of between 90 and 300 volts. Connect the L_1 voltage of the AC line (or DC's negative voltage) to the RPR-1's K_{in} terminal. Connect the L_2 voltage of the AC line (or the DC's positive voltage) to the K_{out} terminal on the meter. Connect the RPR-1's Y_{in} terminal to the meter's Y_{out} terminal. Connect the RPR-1's Z_{in} terminal to the meter's Z_{out} terminal. CUT jumper JP1 for 240V or 277V operation. (See note above.) No other power supply is required to use the RPR-1 relay.

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

OUTPUTS - One three-wire isolated output is provided on the RPR-1, with output terminals K1, Y1 & Z1. Typical output circuit shown above. Arc suppression for the contacts of the mercury-wetted relay is provided internally.

SOLID STATE INSTRUMENTS

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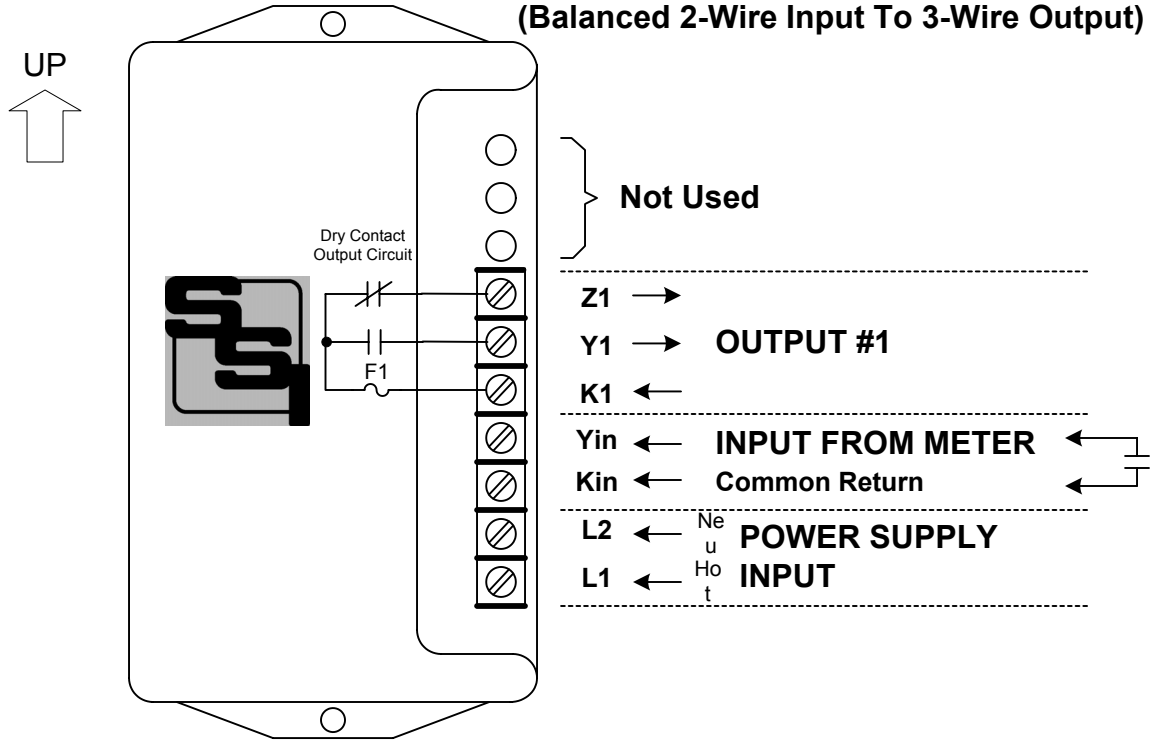
INSTRUCTION SHEET
RPR-1LL-1 PULSE CONVERSION RELAY

(Balanced 2-Wire Input To 3-Wire Output)



MOUNTING POSITION - Because the RPR-1LL-1 contains a mercury-wetted relay, it must be mounted in a vertical position to operate correctly.

POWER INPUT - The RPR-1LL-1 may be powered by an AC voltage of between 90 and 300 volts. The hot lead should be connected to the L1 terminal and the neutral to the L2 terminal.

METER CONNECTIONS - Connect the RPR-1LL-1's "Kin" and "Yin" input terminals to similar terminals on the meter: "K" & "Y". The RPR-1LL-1's "Kin" terminal provides a common return. The "Yin" terminal provides a "pulled up" input line. Closing a dry contact switch, open-collector transistor or open-drain FET between the "Kin" and "Yin" terminals activates the RPR-1LL-1's input and results in K-Y output continuity. Upon opening of the input, the output returns to K-Z output continuity. A minimum closure time of 20 milliseconds is required for a valid input. If required, this mimimum closure time may be changed. Contact factory.

FUSES - The fuses are type 3AG and may be up to 2 Amps in size. A 1/2 Amp fuse (F1) is supplied standard with the unit unless otherwise specified.

OUTPUTS - One three-wire isolated output is provided on the RPR-1LL-1, with output terminals K1, Y1 and Z1. An optional second output is available. Arc suppression for the contacts of the mercury-wetted relay is provided internally. For each change of the input, the output of the relay will change state.

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