3-Channel PULSE ISOLATION
RELAY INSTRUCTION SHEET

MOUNTING POSITION - The RPR-33PS may be mounted in any position.

POWER INPUT - The RPR-33PS is powered by an AC voltage of between 90 and 300 volts. For 208 to 277VAC, connect the AC line's "hot" lead to the L2 terminal. For 120VAC, connect the "hot" lead to the L1 terminal. Connect the "neutral" lead to the N terminal. Connect the PG terminal to power system Ground (GND).

INPUT CONNECTIONS - Connect the K terminal of each meter which is supplying pulses to the RPR-33PS to the RPR-33PS’s K1in, K2in and K3in terminals. Connect the each meter's Y and Z terminals to the respective meter’s Yin and Zin input terminals of the RPR-33PS. Three wires are used for a Form C, 3-wire input. Connect the K and Y lead or the K and Z lead for a Form A, two-wire input.

OUTPUTS - Three 3-wire (Form C) isolated dry-contact outputs are provided on the RPR-33PS, with output terminals K1, Y1 & Z1; K2, Y2, & Z2; and K3, Y3 & Z3. Arc suppression for the contacts of the solid state relays is provided internally by metal oxide varistors (MOV).

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

WETTED OUTPUT OPTION - The RPR-33PS’s outputs may be used with the auxiliary internal DC power supply. This power supply can "wet" the contacts' "K" terminals by using Jumpers JP1 through JP3. Each jumper connects the +15Volt DC supply to the relay of the same number. A separate Signal Ground (SG) is provided for the destination instrumentation’s common ground. In this way, an external power supply is eliminated.
RPR-33PS Repeating Pulse Relay Wiring Diagram

Service Entrance

Electric Meter

To Line
1 2 3 NEU

To Loads

Power Supply Connections
277V
120V
NEU
GND

Pulse Initiator #1 (kwh)
K K1in
Y Y1in
Z Z1in

Pulse Initiator #2 (kvarh)
K K2in
Y Y2in
Z Z2in

Pulse Initiator #3 (EOI)
K K3in
Y Y3in
Z Z3in

RPR-33PS Repeating Pulse Relay

Out 1 To EMS
Out 2 To SCADA
Out 3 To Recorder

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