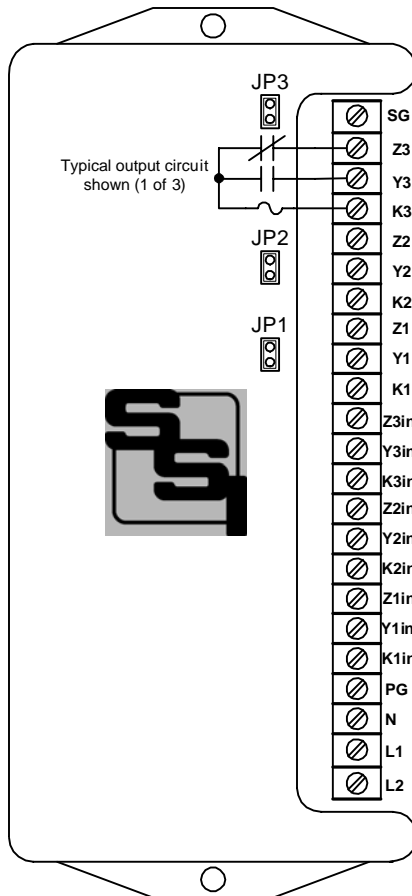


# RPR-33PS

*Elite Solid State*

## 3-Channel PULSE ISOLATION RELAY INSTRUCTION SHEET



GND ← SIGNAL GROUND

Z3 →  
Y3 → **OUTPUT #3**

K3 ←

Z2 →  
Y2 → **OUTPUT #2**

K2 ←

Z1 →  
Y1 → **OUTPUT #1**

K1 ←

Z3in ←  
Y3in ← **INPUT #3**

K3in →

Z2in ←  
Y2in ← **INPUT #2**

K2in →

Z1in ←  
Y1in ← **INPUT #1**

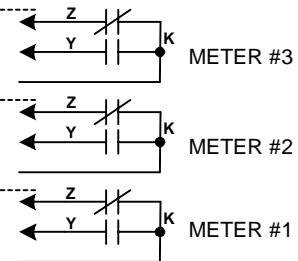
K1in →

GND ← POWER GROUND

N ← NEU

L1 ← 120V HOT **POWER INPUT**

L2 ← 277V HOT



**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 auxillary 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.



## SOLID STATE INSTRUMENTS

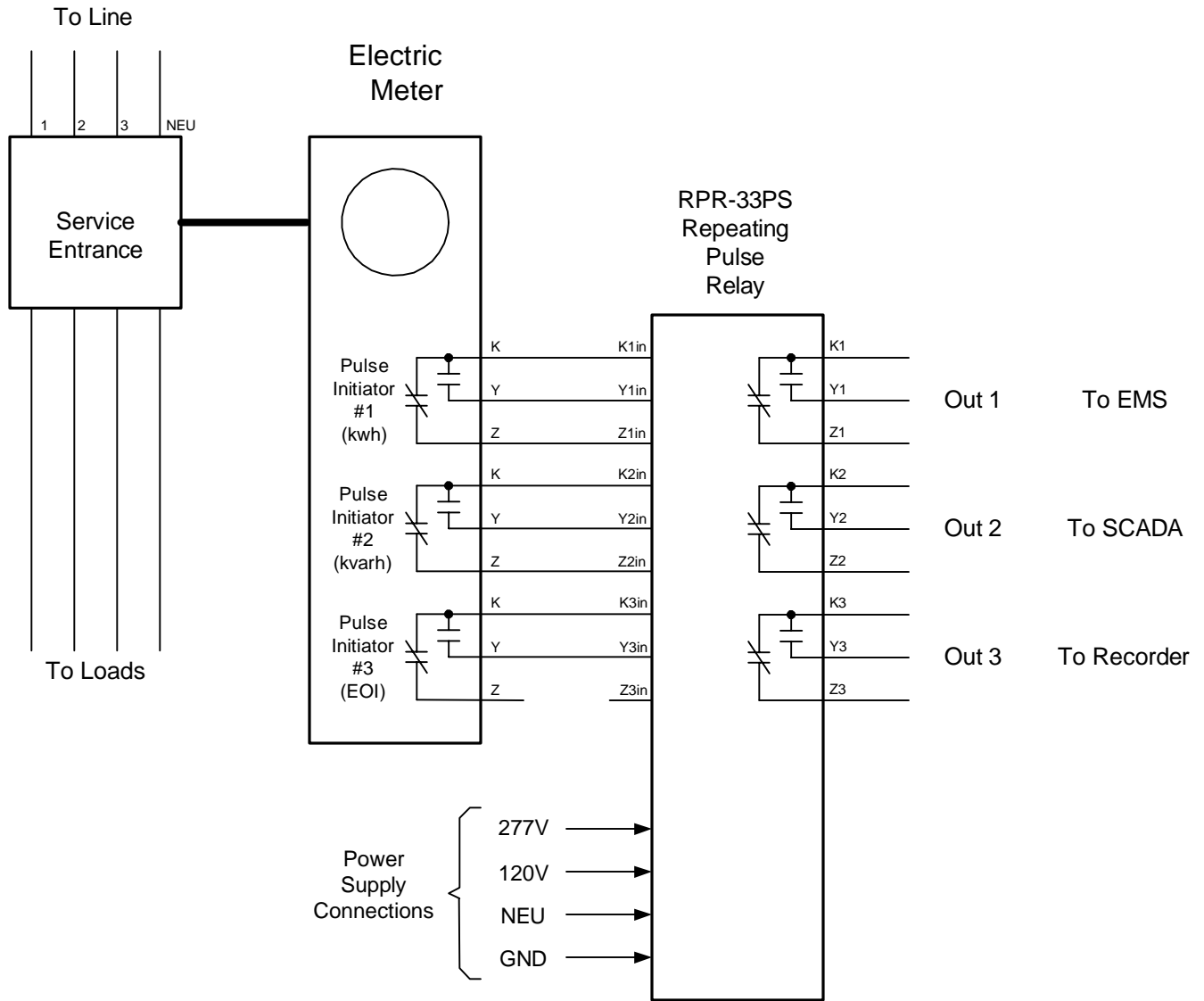
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# RPR-33PS Wiring Diagram (Typical Application)



<b>RPR-33PS Repeating Pulse Relay Wiring Diagram</b>		REVISIONS	
		NO.	DATE
DATE ORIGINAL <b>5/12/09</b>		SCALE <b>N/A</b>	
LATEST REVISION		DRAWN <b>WHB</b>	

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