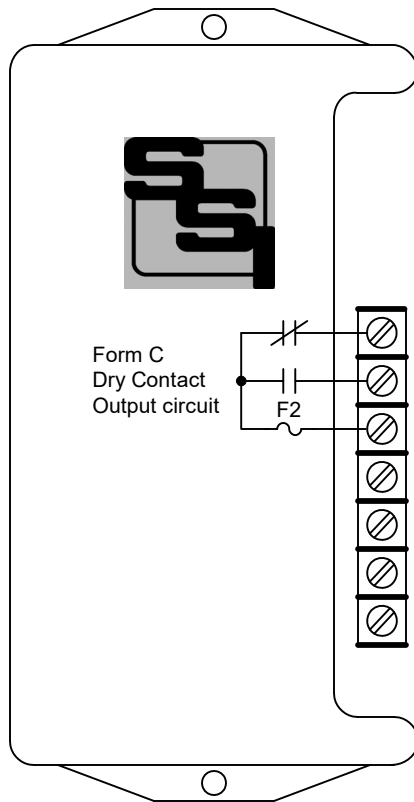


# RPR-1LS

B Series

*Elite Solid State*

## PULSE ISOLATION RELAY INSTRUCTION SHEET 120 VAC ONLY

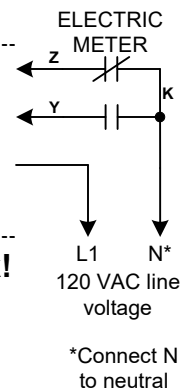


Z1 →  
Y1 → **OUTPUT #1**  
K1 ←

Zin →  
Yin →  
Kin ← ("Hot")  
GND ←

**INPUT**

**CAUTION** - Risk of electric shock!  
All circuitry on the input side of the RPR-1LS is at line voltage potential.

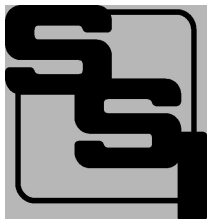


**MOUNTING POSITION** - The RPR-1LS can be mounted in any position.

**INPUT** - The RPR-1LS is powered by an AC line voltage of between 90 and 150 volts. Connect the L1 voltage of the AC line ("HOT") to the RPR-1LS' (relay) **Kin** terminal. Connect Neutral (or Ground if neutral is not available at the meter) to the K terminal on the pulse initiator of the meter. The RPR-1LS will not operate without all three wires between it, the power supply and the meter as shown on Page 2. Connect the RPR-1LS' **GND** terminal to the electrical system ground. The RPR-1LS' power supply does not require any configuration for any voltage in the operating range. No other power supply is required to use the RPR-1LS relay. The meter's KYZ pulse initiator must be rated for the line voltage used.

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

**OUTPUT** - One 3-wire isolated output is provided on the RPR-1LS, with output terminals K1, Y1 & Z1. The output circuit is shown above. Transient voltage suppression for the contacts of the solid-state relays is provided internally.



## SOLID STATE INSTRUMENTS

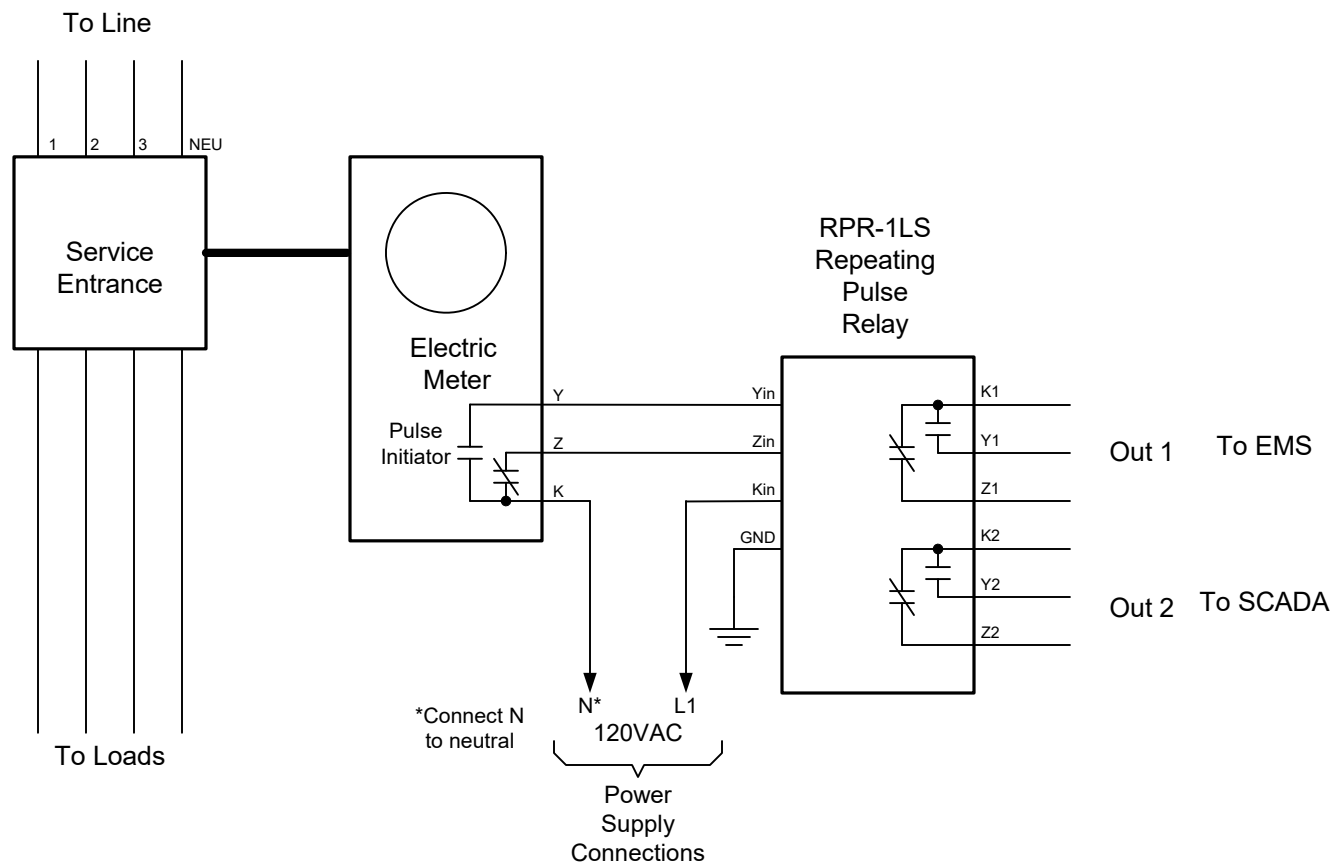
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RPR-1LS B-Series Wiring Diagram



RPR-1LS B-Series Repeating Pulse Relay Wiring Diagram		REVISIONS		<b>Solid State Instruments by Radian Research Inc</b> 3852 Fortune Dr Lafayette, IN 47905 (765) 449-5576 technicalsupport@radianresearch.com www.solidstateinstruments.com	
		NO.	DATE		DESCRIPTION
DATE ORIGINAL	SCALE				
01/01/2025	N/A				
LATEST REVISION	JOB NO.	CHECKED	DRAWN		
			WHB		