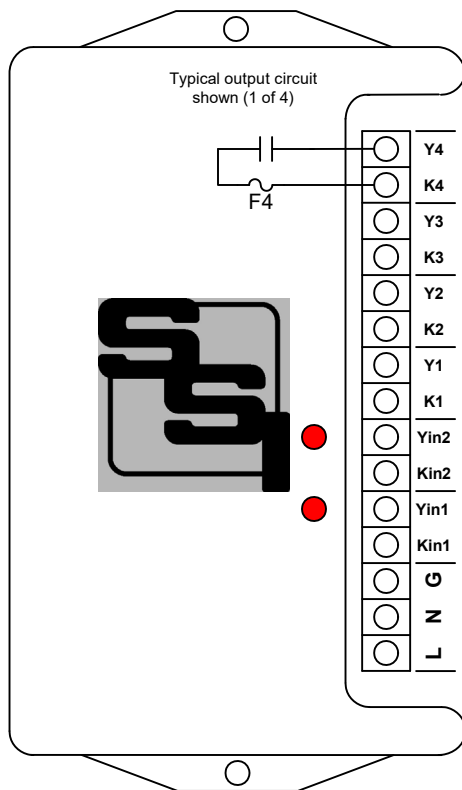
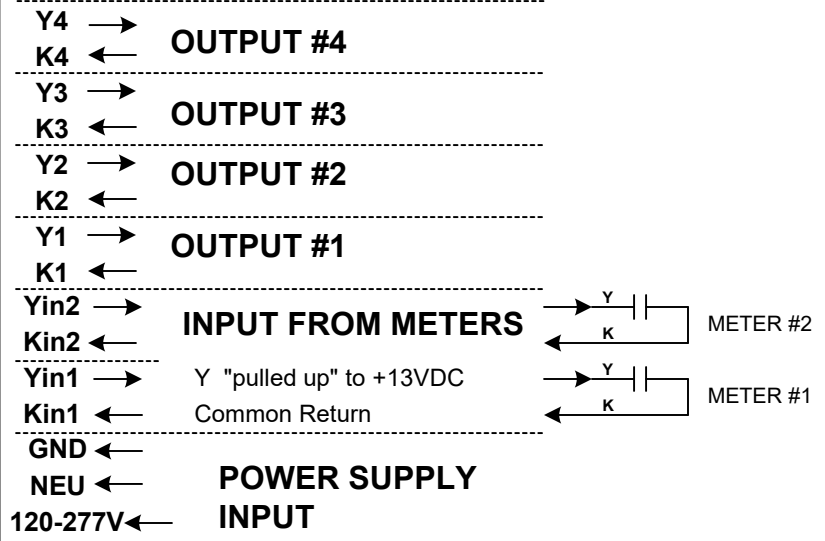


# INSTRUCTION SHEET

## PIR-24 PULSE ISOLATION RELAY



2 Form A Inputs  
4 Form A Outputs  
Small SSI Modular Case



**MOUNTING POSITION** - The PIR-24 can be mounted in any position.

**POWER INPUT** - The PIR-24 is powered by an AC voltage of between 90 and 300 volts. Connect the power supply's "HOT" lead to the LINE "L" terminal. Connect the AC line's "neutral" wire to the N terminal. Connect electrical system ground to the G terminal. If Neutral does not exist at the meter, connect both NEU and GND to Ground.

**WARNING:** The PIR-24 must be wired Phase-to-Neutral, not Phase-to-Phase.

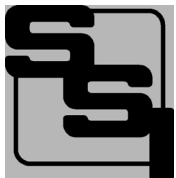
**INPUT COMPATIBILITY** - The PIR-24's inputs are configured to directly interface with dry-contact input compatible output devices such as non-polarized MOSFET solid state relays, Bipolar NPN open-collector transistors, N-Channel open-drain FET transistors, reed relays or other electro-mechanical pulse output devices.

**INPUT CONNECTIONS** - Connect the K terminal of each meter which is supplying pulses to the PIR-24 to the PIR-24's **Kin1** and **Kin2** terminals. Connect each meter's Y terminal to the respective meter's **Yin1** and **Yin2** input terminals of the PIR-24.

**LED INDICATORS** - Each input has a RED LED which indicates when a pulse is received from the meter.

**OUTPUTS** - Four Form A (2-wire) isolated outputs are provided on the PIR-24, with output terminals K1 & Y1, K2 & Y2, K3 & Y3, and K4 & Y4. MOV transient voltage protection for the contacts of the solid state relays is provided internally. The output loads should be limited to 100 mA at 120 VAC/VDC, and are protected by fuses F1 thru F4. Maximum power dissipation of each output is 800mW. **Outputs #1 and #2** are assigned to **Input #1**. **Outputs #3 and #4** are assigned to **Input #2**. The PIR-24's outputs' pulse widths are the same duration as the each output's respective input pulse width.

**FUSES** - The fuses are type 3AG or AGC and may be up to 1/10th Amp in size. Four 1/10 Amp fuses (F1-F4) are supplied standard with the unit unless otherwise specified.



## SOLID STATE INSTRUMENTS

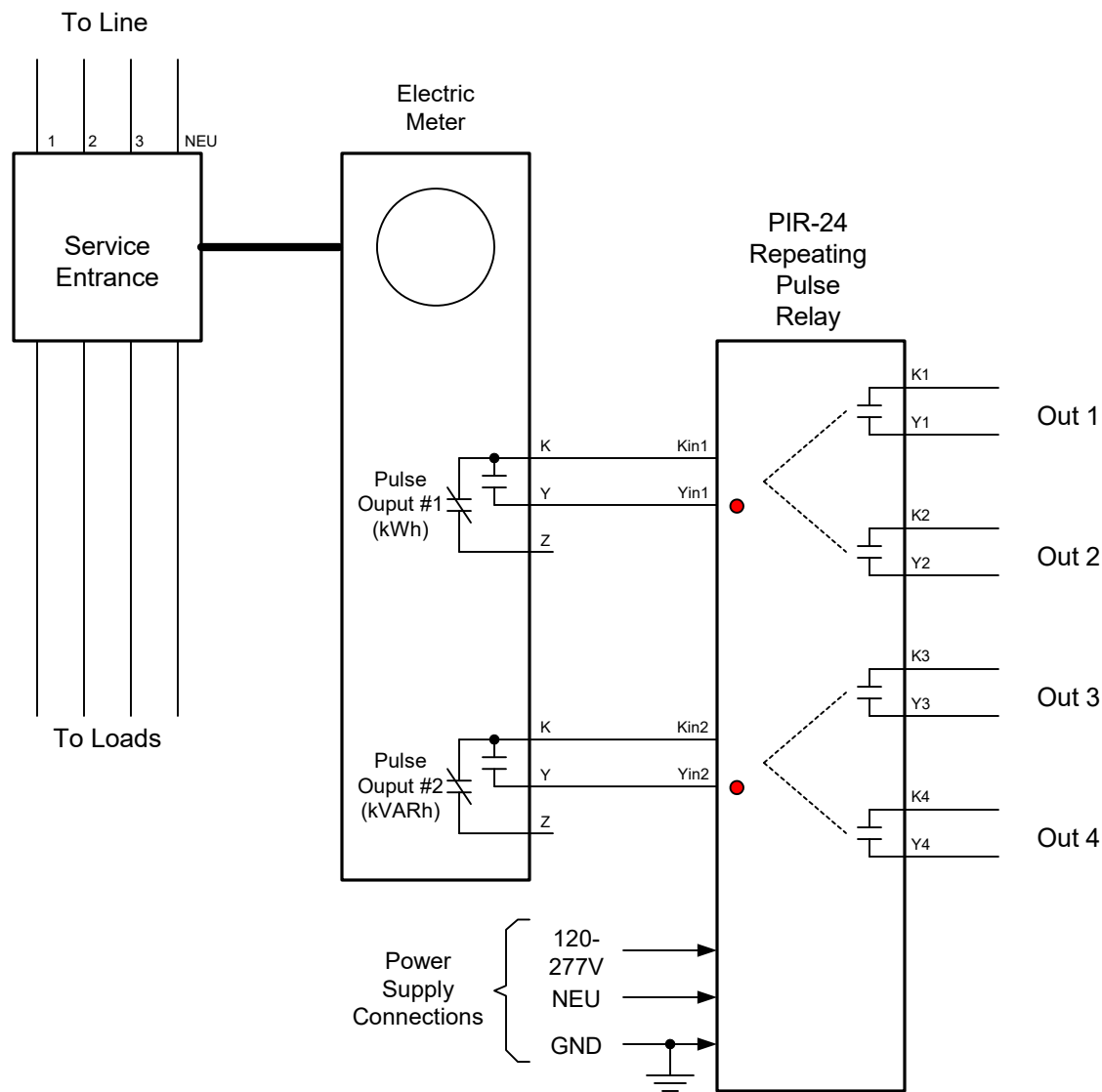
by Radian Research, Inc

3852 Fortune Dr, Lafayette, IN 47905

Phone: (765) 449-5576

Mail: [technicalsupport@radianresearch.com](mailto:technicalsupport@radianresearch.com)

PIR-24 Wiring Diagram



PIR-24 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	
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