



FUNCTIONAL SUMMARY

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TYPE

FORM

IN	OUT
1	1
3 Wire	3 Wire
C	C

RPR-1PS

SSI ELITE

RPR-1PS PULSE ISOLATION RELAY

B-SERIES

FORMERLY THE RPR-1PS A-SERIES

DESCRIPTION

The RPR-1PS pulse isolation relay is designed to provide a single isolated solid state Form C (K, Y, & Z) contact from a single Form C input. The RPR-1PS supplies its own sense voltage to the pulse sending unit, usually an electric meter's pulse initiator.

Typical applications include interfaces between utility metering devices and customer-owned energy control systems, demand recorder applications, and supervisory control systems (SCADA) interfaces.



The RPR-1PS relay is designed to filter noise and transients from its input to prevent any false pulses at its output. Bright red and green LED indicators display the system's status at all times, thus allowing a rapid visual check of the system's performance without requiring any additional test equipment.

The RPR-1PS' input and output circuit's terminal strip is a "Euro" type connector. The "K" lead of the RPR-1PS' output is fused to prevent damage to the relay under almost any condition a user might cause such as excessive current, incorrect wiring, etc. The RPR-1PS' robust solid state switching device is rated at 800V and 750mA giving maximum protection from lightning or transient voltage damage. Its built-in transient protection for the solid state switch contacts eliminates the need for external or off-board transient suppression devices. All component parts that have power applied to them, with the exception of the input/output terminal strip, are enclosed in a polycarbonate cover for maximum protection. The mounting base plate is also made of polycarbonate and offers excellent electrical insulation between the circuit and the mounting surface.



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SPECIFICATIONS

ELECTRICAL

Power Input:	120 VAC, 208-277 VAC. Burden: 10 mA at 120 VAC
Pulse Output:	One set of Form C dry contacts (K, Y & Z) for energy pulses. The solid state "no bounce" relay contacts are rated at 250 VAC/VDC @ 1/2 Amp. The maximum rating of the contacts is 100 VA. Factory fused at 1/2 amp. (3AG)
Contact On-State Resistance:	2.3 ohms maximum, 1.7 ohms typical
Insulation Resistance:	50 megohms typical
Operate & Release Time:	Turn-on time - 8 milliseconds typical, 20mS max Turn-off time - 1 milliseconds typical, 5mS max
Input/Output Isolation Voltage:	2500Vrms

MECHANICAL

Mounting:	Any position
Size:	3.27" wide, 5.65" high, 1.50" deep
Weight:	12 ounces

TEMPERATURE

Temperature Range:	-38° C to +85° C, -36.4° F to +158° F
Humidity:	0 to 98% non-condensing

AVAILABLE OPTIONS

Input Voltages:	24 VAC/24VDC, 125VDC - call factory for details
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