

SSI ELITE RELAYS

LMR-111PS LOAD MANAGEMENT RELAY

DESCRIPTION

The LMR-111PS load management relay is designed to make implementing load management applications easy, and provides one isolated solid-state dry contact output from a single Form A or C input. The output contact is configured as a Form C (K, Y, & Z) contact and is available for the customer's use. In addition, an auxiliary voltage output is available in the customer compartment for powering additional related telemetry or equipment*. The typical application of the LMR-111PS is the utilities' interface between the electric meter and data or load profile recorders, demand response equipment or customer-owned energy control systems. The LMR-111PS includes everything necessary to provide a customer with energy pulses in one compact, ready-to-use, weather-resistant enclosure.



The LMR-111PS is internally divided into two compartments. Once installed, the upper compartment is normally locked and only accessible to utility metering personnel. It contains all of the electronics along with fusing that is coordinated with the fuses contained within the customer compartment. The lower compartment (customer compartment) contains a terminal strip, fusing, and output status LEDs for the pulse output and the auxiliary power supply. A on/off switch for the auxiliary power output allows additional powered equipment to be easily turned on and off for operation and maintenance. The red and green LEDs light alternately upon changes of the KYZ input status.

The use of LEDs in the customer's compartment allows a rapid visual check of the system's performance by inexperienced personnel without requiring any additional test equipment. Because of the redundant, coordinated fusing in both the utility's and customer's compartments, the meter shop service coordinator can usually determine the location of the service problem as to either utility or customer responsibility by the simple question "are the LEDs flashing?"

The double "K" lead coordinated fusing of the customer's pulse output will prevent damage to the relay under almost any condition a user might cause such as that caused by excessive current, incorrect wiring, etc. The robust solid state switching devices are rated at 800V and 750mA giving maximum protection from lightning or transient voltage damage. The LMR-111 has built-in transient protection for the solid state switching devices that eliminates the need for external or off-the-board transient suppressors.

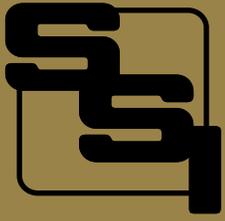
*Note: To use the 120VAC Auxiliary Power Output, the relay must be powered by 120VAC.

FUNCTIONAL SUMMARY

	IN	OUT
#	1	3
TYPE	2 Wire or 3 Wire	3 Wire
FORM	A or C	C

TYPE
FORM

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SPECIFICATIONS

ELECTRICAL

Power Input:	120, 208-277 VAC. Burden: 10 mA at 120 VAC
Pulse Input:	One Form C (3-wire) input with +13VDC wetting voltage on the K terminal; (Can also be used as one or two Form A inputs)
Pulse Output:	One Form C dry contact solid-state output, The contacts are solid-state "no bounce" relays rated at 250VACVDC at 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 and Release Time:	Turn On Time - 8 mS typical; 20 mS MAX Turn Off Time - 1 mS typical; 5 mS MAX
Input/Output Isolation Voltage:	2500Vrms
Auxiliary Voltage Output:	One 120VAC switched output available in customer compartment to power, auxiliary load management equipment, fused at 1/2 AMP. Operates only with 120VAC input.

MECHANICAL

Mounting:	Any position
Size:	9.0" wide, 11.0" high, 4.50" deep
Weight:	9 pounds
Type/Material:	NEMA 4X Fiberglass Case

TEMPERATURE

Temperature Range:	-38° C to +70° C, -36.4° F to +158° F
Humidity:	0 to 98% non-condensing

AVAILABLE OPTIONS

Input Voltages:	125VDC; 15-48VDC , 12VAC/VDC
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