

	FUNCTIONAL SUMMARY	
	IN	OUT
#	1	2
TYPE	3 Wire	(1) 3 Wire, (1) 2 Wire or 3 Wire
FORM	С	*A or C
	* Swite	chable



SELF-CONTAINED RELAYS (OUTDOOR)

CIR-2PS CUSTOMER INTERFACE RELAY

DESCRIPTION

The CIR-2PS Customer Interface Relay provides two isolated solid state dry contacts from a single Form C input. One set of contacts may be configured as either a Form A (K & Y) or a Form C (K, Y, & Z) contact. The second set of contacts is a fixed 3-Wire Form C output typically used for a pulse recorder or other utility instrumentation. The typical application is the utilities' interface between the KWH meter and a customer-owned energy control system. The CIR-2PS includes everything necessary to provide a customer with energy pulses in one compact ready-to-use weatherresistant enclosure.



The CIR-2PS 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 fuse contained within the customer compartment. The lower compartment (customer compartment) contains a terminal strip, fusing, output status LEDs, and a switch allowing the customer to choose either a 2-wire or 3-wire output. With the switch in the two-wire mode, each relay contact closure is approximately 100 milliseconds long and occurs each time the 3-wire input changes state. The red LED will only light each time there is a contact closure.

With the switch in the 3-wire mode, the relay contacts "K" and "Y", and "K" and "Z" directly follow the input's status. In this mode, both the red and green LEDs light alternately depending upon input's 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 CIR-2PS's 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 CIR-2PS' robust solid state switching device is rated at 800V and 750mA giving maximum protection from lightning or transient voltage damage. The CIR-2PS has built-in transient protection for the solid state switching devices that eliminates the need for external or off-the-board transient suppressors.



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CIR-2PS CUSTOMER INTERFACE RELAY

FORMERLY THE CIR-2A

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.
Pulse Output:	Two sets of dry contact solid state outputs. Output 1: One field-selectable set of Form A or Form C contacts (K & Y or K, Y, & Z) selected by a user-changeable switch, located in the customer's compartment. Output 2: one fixed set of Form C contacts located in the utility compartment. 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, 20mS MAX Turn-off time15 mS typical, 5mS MAX
Input/Output Isolation Voltage:	2500Vrms

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

OPTIONS

Input Voltages:	24 VAC/24VDC, 125VDC
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