



The CIR-1PS 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 fusing contained within the customer compartment. The lower compartment, the customer compartment, contains a terminal strip, fusing, status indication LEDs, and a switch that allows 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 terminal strip contacts " $K$ " and " $Y$ ", and " $K$ " and " $Z$ " will directly follow the input's status. In this mode, both the red and green LEDs are lit 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 utilities 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-1PS'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-1PS' robust solid state switching device is rated at 800 V and 750 mA giving maximum protection from lightning or transient voltage damage. The CIR-1PS has built-in transient protection for the solid state switching devices that eliminates the need for external or off-the-board transient suppressors.

## SELF-CONTAINED RELAYS (OUTDOOR)

## CIR-1PS CUSTOMER INTERFACE RELAY

FORMERLY THE CIR-1A

## 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 <br> voltage on the K terminal |
| Pulse Output: | One field-selectable dry Form A or Form C <br> contacts (K \& Y or K, Y, \& Z) for selected by a <br> user-changeable switch located in the custom- <br> er's compartment, for energy pulses. The con- <br> tacts are solid state "no bounce" relays rated at <br> 250VACVDC at 1/2 Amp. The maximum rating <br> of the contacts is 100 VA. Factory fused at 1/2 <br> 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 <br> Turn-off time - 15 mS typical, 5 mS MAX |
| Input/Output Isolation Voltage: | 2500 Vrms |

## MECHANICAL

| Mounting: | Any position |
| :--- | :--- |
| Size: | $8.0^{\prime \prime}$ wide, 10.0" high, 4.50" deep |
| Weight: | 9 pounds |
| Type/Material: | NEMA 4X Fiberglass Case |

TEMPERATURE

| Temperature Range: | $-38^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C},-36.4^{\circ} \mathrm{F}$ to $+158^{\circ} \mathrm{F}$ |
| :--- | :--- |
| Humidity: | 0 to $98 \%$ non-condensing |

OPTIONS

| Input Voltages: | 24 VAC/24VDC, 125VDC |
| :--- | :--- |

