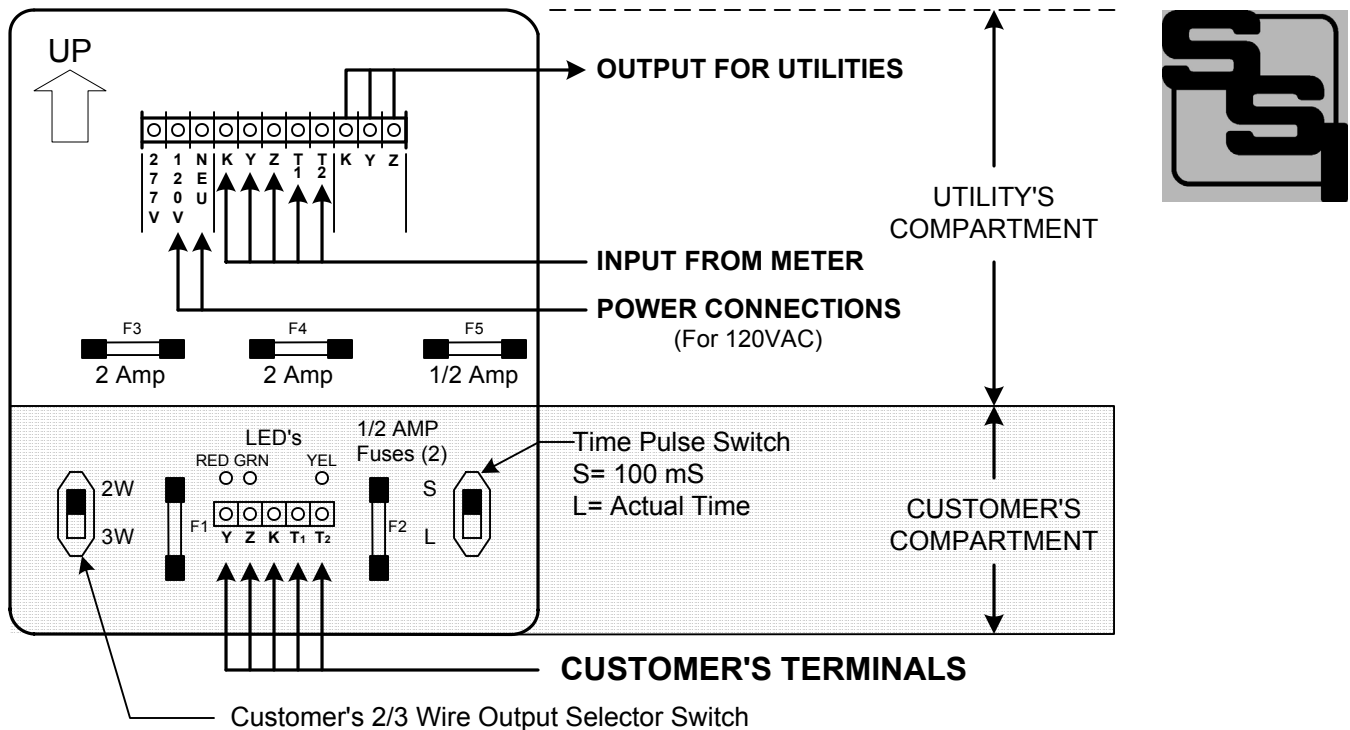


INSTRUCTION SHEET

CIR-3A CUSTOMER INTERFACE RELAY



MOUNTING POSITION - Because the CIR-3A contains mercury-wetted relays, it must be mounted in a vertical position to operate correctly.

POWER INPUT - If the CIR-3A is to be powered by a local power supply of between 90 and 200 volts, use the NEU and the 120V input terminals in the utility's compartment. For 200 to 350 VAC operation, use the NEU and 277V input terminals in the utility's compartment.

METER CONNECTIONS - Connect the K, Y, Z, T1 & T2 leads from the meter to the K, Y, Z, T1, & T2 terminals on the terminal strip in the utility's compartment. K to K; Y to Y; Z to Z, T1 to T1; & T2 to T2. The CIR-3A's "K" terminal provides the +13VDC wetting (sense) voltage to the meters' "K" terminals. The CIR-3A can only use 3-Wire inputs.

CUSTOMER OUTPUT - The customer's output is at the bottom of the board in the customer compartment. If the customer's output selector switch on the left side is in the 2W (2 wire) position, each change of input pulse state (K to Y, K to Z) will cause a single output pulse of 1/10 of a second (100 mS) to occur between the output terminals K & Y. If the switch is in the 3W (3 Wire) position, each K to Y input will cause a K to Y output. A K to Z input will result in a K to Z output. The CIR-3A contains an input debouncing circuit which eliminates false pulses. If more than one K to Y input (pulse) occurs when the relay changes state, only the first pulse will be acted upon. This is also true for the K to Z input. The switch on the right will set the timing of the output pulse. See drawing for timing options of pulse in the two positions. Arc suppression for the contacts of the mercury-wetted relay are provided internally.

FUSES - Fuses F3 and F4 in the utility's compartment are coordinated with the customer's fuses F1 and F2, respectively. Normally 2 Amp fuses are used for F3 & F4 and 1/2 Amp fuses are used for F1 & F2. Fuse F5 (1/2 Amp) protects the utility's output only and may be sized from 1/4 Amp to 2 Amp, depending on utility requirements.



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