CIR-1PS
CUSTOMER INTERFACE RELAY INSTRUCTION SHEET

Elite Solid State

POWER CONNECTIONS

2 7 7 V	1 2 0 V	N E U	EGND	K	Y	Z	Not Used

UTILITY'S COMPARTMENT

INPUT FROM METER

F2
3/4 AMP Fuse

LED's
RED   GRN

2W
3W
F1

Y	K	Z

CUSTOMER'S COMPARTMENT

1/2 AMP Fuse

CUSTOMER'S TERMINALS

Customer's 2/3 Wire Output Selector Switch
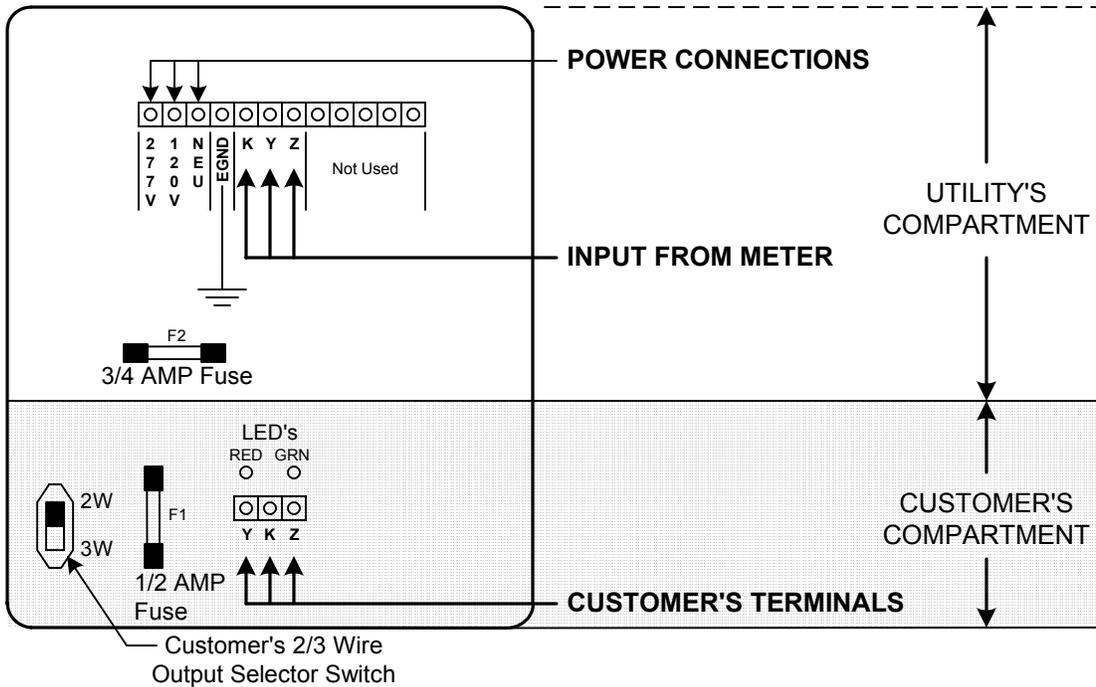
MOUNTING POSITION - The CIR-1PS may be mounted in any position.

POWER INPUT - For a 120VAC, use the **120V** teriminal for the "hot" lead and the **NEU** terminal for the neutral power supply lead. For 208 to 277VAC, use the **277V** teriminal for the "hot" lead and the **NEU** terminal for the neutral power supply lead.   The **EGND** terminal MUST be connected to the power supply ground.

METER CONNECTIONS - Connect the K, Y, & Z leads from the meter to the **K**, **Y**, & **Z** terminals strip in the utility's compartment. K to K; Y to Y; and Z to Z. The CIR-1PS' "K" terminal provides the +13VDC wetting (sense) voltage to the meters' "K" terminals. The CIR-1PS can only use 3-Wire inputs.

CUSTOMER OUTPUT - The customer's output is at the bottom of the CIR-1PS board in the customer compartment. If the customer's output selector switch is in the 2W (2-wire) postition, each change of input pulse state (K to Y or 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 closure will cause a K to Y output. A K to Z closure will result in a K to Z output. The CIR-1PS 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. Arc suppression for the contacts of the solid-state relay are provided internally.
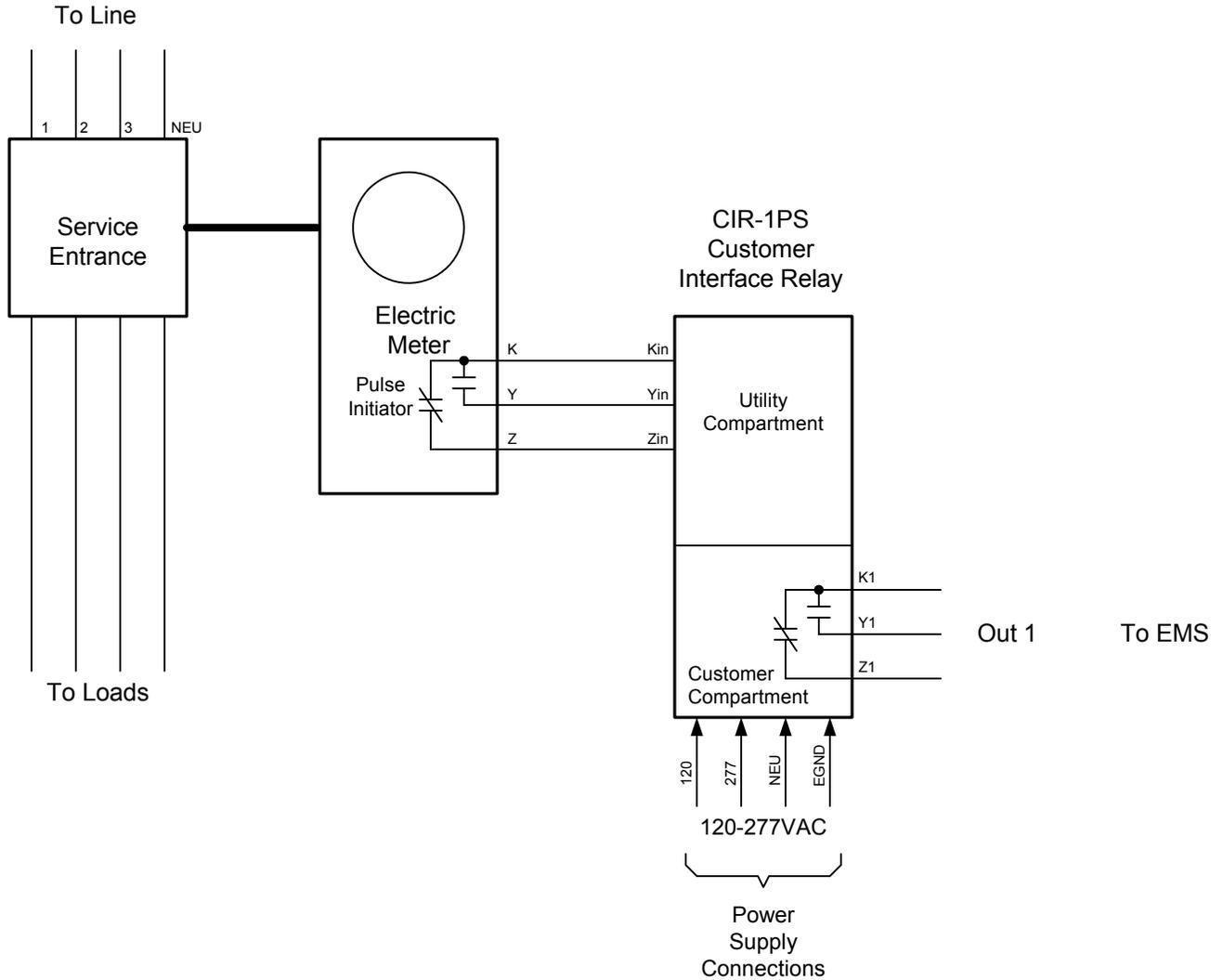
FUSES - Fuses are 3AG fast-blow type. Fuse F2 in the utility's compartment is coordinated with the customer's fuse F1. Fuse F2 must be larger than Fuse F1. F2 is 3/4 Amp maximum, and F1 is 1/2 Amp maximum.

SOLID STATE INSTRUMENTS
a division of Brayden Automation Corp.
6230 Aviation Circle, Loveland Colorado 80538
Phone: (970)461-9600   Fax: (970)461-9605
E-mail:support@solidstateinstruments.com

CIR-1PS Wiring Diagram

To Line

1　2　3　NEU

Service Entrance

Electric Meter

Pulse Initiator

K　Kin
Y　Yin
Z　Zin

CIR-1PS Customer Interface Relay

Utility Compartment

To Loads

Customer Compartment

K1
Y1
Z1

Out 1　　To EMS

120　277　NEU　EGND

120-277VAC

Power Supply Connections

CIR-1PS Customer Interface Relay Wiring Diagram	REVISIONS		
	NO.	DATE	DESCRIPTION

DATE ORIGINAL	SCALE
10/04/2008	N/A

LATEST REVISION	JOB NO.	CHECKED	DRAWN
			WHB