DUAL DIGITAL INPUT MODULES

115V AC/DC M/N 45C40 230V AC/DC M/N 45C43 24V AC/DC M/N 45C44

DESCRIPTION

The Diral AC/DC logic Module contains the necessary interface discuitely between on/off devices such as push bustons, selector switches, limit switches and the logic levels required by the programmable controller. Each imput Module contains the circuitry for two individually isolated ciput channels. Each channel will accept an AC signal (48/63 HZ) or DC logic signal of the specified voltage. The logic will be runned on when the input signal traches the problem-mined threshold. Electrical isolation of the input signal from the logic signal is accomplished by use of phonocouplers.

Two LED indicators are provided for each input channel. The green POWER indicator will be illuminated when the input is switched on. The yellow LOGIC indicator will be illuminated when the logic signal to the control system is turned on. Simply by chaerving the LED's, it can be determined that a field input signal is present and that the input module is operating properly.

A minimum overent resistor of each input insures that sufficient current is drawn through the input device to prevent contact film build up. Filtering is also provided to prevent notice from affecting the module operation. In addition, the filtering acts as a bounce filter assuring that the signal of at least 9.5ms is present. The filtering is located in the logic side of the channel.

Users weing connects to the terminal strip on the I/O Rall. (Refer to figure 2 for Example of Held Winnig)

A slick-on label is provided with each module to identify the type of module. This label is affixed to the right-hand side of the terminal strip by the User. When the label is installed and the module is removed, the label will be visible and will identify the type module that needs to be replaced.

SPECIFICATIONS

Inputs per moditie : 2 channels

Input Module Location : Mounted to I/O Rail

Ambient Temp Range : 0 to 60° (Operational)

20 to 85° (Storage)

Humidity Rating : 0 to 95% Non Condensing

Response Time : 9.5ms at 60 HZ

Turn On Time : 1 5ms after threshold is exceeded

Turn Off Time 12.0ms after threshold is removed (AC).

19.0ms after threshold is removed (DC).

Isolatem

Optical

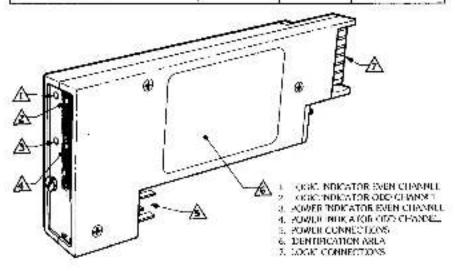
2500 VRMS Isolation between input cir-cuit and logic circuit. Each input is isolated from one another.

Electrical

Frequency

DC or 48/63 HZ

	M/N 45C40	M/N 45C43	M/N 45C44
Veltages	0.000,400	590000	86000
Nominal AC/DC	115V	230V	24V
On Threshold AC	80V	150V	16.5V
DC	108V	203V	20V
Of Theshold AC	90V	120V	10.5V
DC	81V	1650	14.5 V
Max. Input Voltage	130V	255V	287
Impedance (IGLO ORMS)	16K	54K	38
Designation (Walts) (per input)	asw	1.5W	200
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Fägure 1

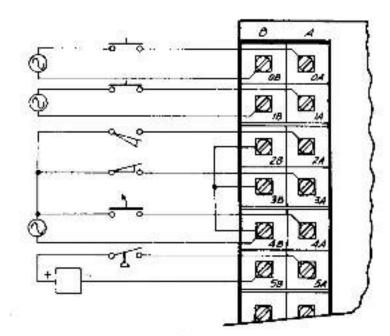


Figure 2

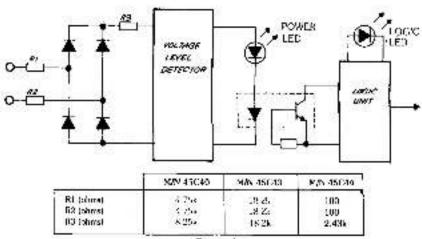


Figure 3

For additional information

1 Allen-Bradley Drive Mayfield Heights, Ohio 44124 USA Tel: (800) 241-2886 or (440) 646-3599 http://www.reliance.com/automax

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