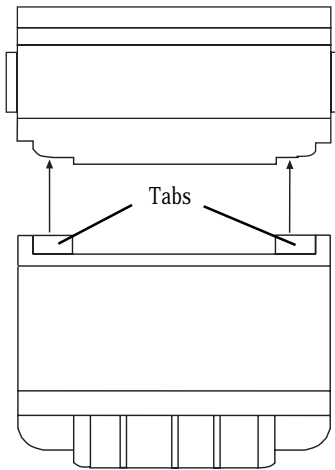


# A 1 0 3 O P T I O N M O D U L E S

## INSTALLATION

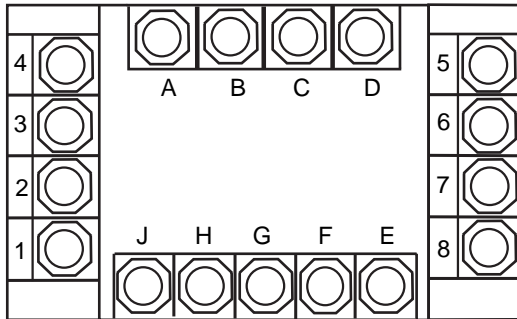
Top View



After the base unit is installed in the panel, the option module can be attached to the back of the instrument. Orient the module so that terminals A, B, C and D are on top. Slide the module on to the back of the instrument so that the tabs on the module fit underneath the grooves on the top of the instrument and above the grooves on the bottom. The two pieces will fit together tightly enough so that the instrument will support the weight of the module during wiring. Terminals 1 - 8 on the module connect through to the base unit (Refer to the Technical Manual of the instrument for corresponding functions and specific wiring instructions). Provided with the module are 8 long screws and up to 8 short screws. The long screws provide the connections for terminals 1 - 8, and as secure the module to the instrument. The short screws are for wiring terminals A through E, which are the functions of the option module.

## WIRING

All modules contain 17 terminals. The exact functions that are present are determined by the model of instrument and option module.



**1 - 8. Connection to instrument. (Refer to appropriate manual)**

**A. Normally Open Relay Contact**

**B. Relay Common**

**C - D. High or Low Voltage Input (No polarity)**

**E. 115 VAC Line Input**

**F. 115 VAC Neutral**

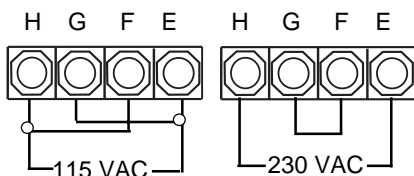
**G. 115 VAC Line Input**

**H. 115 VAC Neutral**

**J. Normally Closed Relay Contact**

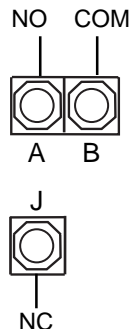
### AC Power

For 115 VAC power, connect the Line from the source to terminal E and the Neutral to H. Jumper H to F and G to E so that the inputs are in parallel. For 230 VAC connect the inputs so they are in series with the Line to E and the Neutral to H, then jumper terminals G and F.



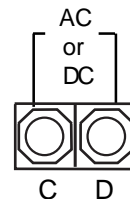
### Relay Output

Connect AC or DC load circuits to relay contacts on terminals A, B and J as shown below.



### High/Low Voltage

Connect the High or Low Voltage Input (depending on which Option Module you have) to terminals C and D. Polarity of the connection doesn't matter for either AC or DC.



# A 1 0 3 O P T I O N M O D U L E S

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## SPECIFICATIONS

### AC Power Input

Voltage: 115 or 230 VAC (based on how terminals are wired)  
Frequency: 50/60 Hz  
Sensor Power Supply: Terminal 8 provides an unregulated 10 - 20 VDC supply for powering sensors up to 50 mA.

### Relay Output

Type: SPDT (Form C) mechanical relay  
Contact Rating: 5 Amps @ 120/240 VAC or 30 VDC  
Contact Material: Silver Alloy  
Electrical Life: 500,000 minimum operations  
Mechanical Life: 10 million minimum operations  
Operate Time: 6 ms

### High Voltage Input

Voltage Range: 100 - 260 VAC or VDC  
Count Speed: 30 Hz max (50 % duty cycle)  
Minimum Pulse Width: 12 ms  
Impedence: 200 K $\Omega$

### Low Voltage Input

Voltage Range: 5 to 30 VAC or VDC  
Count Speed: 30 Hz max (50 % duty cycle)  
Minimum Pulse Width: 12 ms  
Impedence: 17 K $\Omega$

## WARRANTY

Standard products manufactured by the Company are warranted to be free from defects in workmanship and material for a period of one year from the date of shipment, and products which are defective in workmanship or material will be repaired or replaced, at the option of the Company, at no charge to the Buyer. Final determination as to whether a product is actually defective rests with the Company. The obligation of the Company hereunder shall be limited solely to repair and replacement of products that fall within the foregoing limitations, and shall be conditioned upon receipt by the Company of written notice of any alleged defects or deficiency promptly after discovery within the warranty period, and in the case of components or units purchased by the Company, the obligation of the Company shall not exceed the settlement that the Company is able to obtain from the supplier thereof. No products shall be returned to the Company

without its prior consent. Products which the Company consents to have returned shall be shipped F.O.B. the Company's factory. The Company cannot assume responsibility or accept invoices for unauthorized repairs to its components, even though defective. The life of the products of the Company depends, to a large extent, upon the type of usage thereof, and THE COMPANY MAKES NO WARRANTY AS TO FITNESS OF ITS PRODUCTS FOR SPECIFIC APPLICATIONS BY THE BUYER NOR AS TO PERIOD OF SERVICE UNLESS THE COMPANY SPECIFICALLY AGREES OTHERWISE IN WRITING AFTER THE PROPOSED USAGE HAS BEEN MADE KNOWN TO IT.

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