

**PROGRAMMABLE AS A PERCENT OF RANGE**

**FEATURES**

- Programmable settings for either current or voltage input, threshold levels, and over- or under-relay alarms.
- Internal DIP-switches may be set for either 0-1mA<sub>d</sub>c or 0-10V<sub>d</sub>c, and may be set for under-alarm or over-alarm relay operation.
- Factory setting “0-1mA and over-range alarm mode”

- Lid-mounted two-digit numerical push-button switch calibrated as percent of full scale with a threshold range of 1-99%.
- Red LED lamp lights to indicate when threshold level has been obtained.
- Highlighted area in table indicates factory setting.

**5 YEAR WARRANTY**



**INPUT AND RELAY OPERATION SETTINGS**

INPUT RANGE	INTERNAL SWITCH POSITIONS							
	1	2	3	4	5	6	7	8
<b>UNDER CURRENT*</b>								
0-1mA	ON	ON			ON	ON		
0-10Vdc	ON	ON				ON		
<b>OVER CURRENT**</b>								
0-1mA*			ON	ON	ON	ON		
0-10Vdc			ON	ON		ON		

Highlighted area indicates Factory Setting. Unit is set at factory for the 0-1mA input and in the over-range alarm mode.

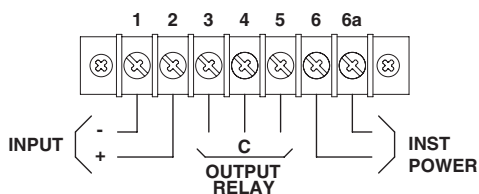
\*The output relay will energize when instrument power is applied and the current is above the set point threshold. It will remain in a “Fail Safe” mode until either the input current drops below the set point threshold or instrument power is removed.

**OPERATION OF THE OUTPUT RELAY AND LED**

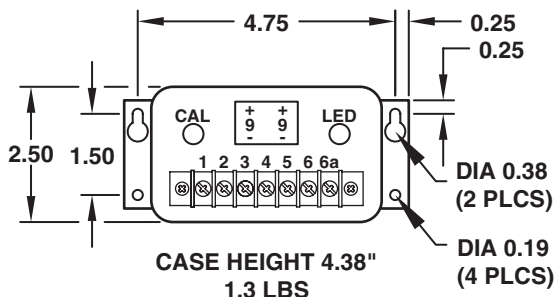
MODE OF OPERATION	OUTPUT TERMINAL CONNECTIONS & LED OPERATION							
	UNDER RANGE*				OVER RANGE**			
	3	4	5	LED	3	4	5	LED
INST. POWER OFF	N/C	Com	N/O	OFF	N/C	Com	N/O	OFF
INST. POWER ON	N/C	Com	N/O	ON	N/O	Com	N/C	OFF
INST. PWR. ON INPUT BELOW SET POINT	N/C	Com	N/O	ON	N/O	Com	N/C	OFF
INST. PWR. ON INPUT ABOVE SET POINT	N/O	Com	N/C	OFF	N/C	Com	N/O	ON

\*\* The output relay will energize when instrument power is applied and will remain in a “Fail Safe” mode until either the instrument power is removed or the input current exceeds the set point threshold level.

**CONNECTION DIAGRAM**



**CASE DIMENSIONS**



All dimensions in inches

**SPECIFICATIONS**

**INPUT**  
 Current ..... 1mA<sub>d</sub>c  
 Current Burden ..... 1kΩ  
 Voltage ..... 0-10V<sub>d</sub>c  
 Voltage Burden ..... 10kΩ  
 Set Point (Digital) ..... 1-99%, 1% minimum

**DIELECTRIC TEST**  
 Input to Output and Case ..... 1500Vac

**INSTRUMENT POWER** ..... 85-135Vac, 50-400Hz, 2.5VA

**OUTPUT**  
 Relay ..... Form C, SPDT  
 Rating ..... 120Vac, 3A  
 Response Time ..... 10ms

**ACCURACY**  
 Accuracy ..... Setpoint ±2 digits  
 Resolution ..... ±1 Digit  
 Hysteresis ..... ±1 Digit  
 Temperature Effect (-10°C to +60°C) ..... ±0.1%/°C

**MECHANICAL**  
 Mechanical Operations ..... 1 Million