

DC CURRENT SET POINT RELAY

DC SETPOINT RELAY

MODEL CRD-005

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 - 1mAdc or 0 - 10Vdc, and may be set for under alarm or over alarm relay operation.
- Lid mounted two digit numerical push-button switch calibrated as percent of full-scale with a threshold range of 01 - 99 percent.
- Red LED lamp lights to indicate when threshold level has been obtained.
- Highlighted area indicates Factory Setting. Unit is set at factory for the 0-1mA input and in the over range alarm mode.



INPUT AND RELAY OPERATION SETTINGS

INPUT RANGE	INTERNAL SWITCH POSITIONS							
	1	2	3	4	5	6	7	8
UNDER CURRENT*								
0-1mAdc	ON	ON			ON	ON		
0-10Vdc	ON	ON				ON		
OVER CURRENT**								
0-1mAdc*			ON	ON	ON	ON		
0-10Vdc			ON	ON		ON		

OPERATIONS MODE

*Under Range Alarm

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.

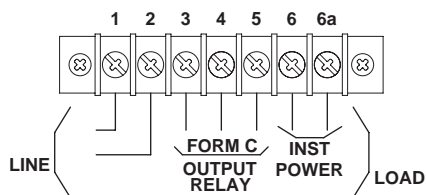
**Over Range Alarm

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.

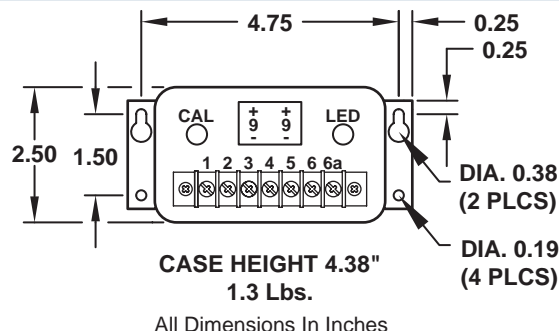
OPERATION OF THE OUTPUT RELAY AND LED

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

CONNECTION DIAGRAM



CASE DIMENSIONS



SPECIFICATIONS

INPUT

Current..... 1mAdc
 Burden1K Ω
 Voltage..... 0-10Vdc
 Burden10K Ω
 Resolution..... ± 1 Digit
 Hysteresis..... ± 1 Digit
 Set Point (Digital).....01 - 99 %, 01 minimum
 Dielectric Test (Input to Output and Case)1500Vac

OUTPUT

ACCURACYSet point ± 2 digits
 Relay Form C, SPDT
 Rating120Vac, 3 Amps
 Mechanical Operations..... 1 Million
 Temperature Effect (-10°C to +60°C) $\pm 0.1\%/^{\circ}\text{C}$
 Instrument Power.....85-135Vac, 50-400Hz, 2.5VA
 Response Time..... 10ms

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