

AC CURRENT SETPOINT RELAY

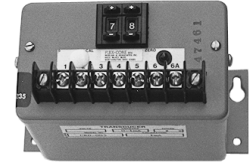
OVER/UNDER AC CURRENT SETPOINT RELAY

MODEL
CRD-020

RANGES UP TO 20A AC CURRENT INPUT

FEATURES

- Programmable set point relay setting for input current, threshold levels, over and under current operation.
- Internal DIP switch to set the current ranges of either 0-5, 0-10, 0-15, or 0-20 amperes, and the relay mode for under or over current 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 shipped from the factory with a 0-5 amp input and in an over current relay mode. The set point relay can be set to provide any one of the four current ranges and mode of operation.



INPUT AND RELAY OPERATION SETTINGS

INPUT RANGE	INTERNAL SWITCH POSITIONS							
	1	2	3	4	5	6	7	8
	UNDER CURRENT*							
5	ON	ON						ON
10	ON	ON						ON
15	ON	ON				ON		
20	ON	ON			ON			ON
	OVER CURRENT**							
	1	2	3	4	5	6	7	8
	5			ON	ON			
10			ON	ON				ON
15			ON	ON		ON		
20			ON	ON	ON			ON

OPERATION OF THE OUTPUT RELAY AND LED

MODE OF OPERATION	OUTPUT TERMINAL CONNECTIONS & LED OPERATION							
	UNDER CURRENT*				OVER CURRENT**			
	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 CURRENT BELOW SET POINT	N/C	Com	N/O	ON	N/O	Com	N/C	OFF
INST PWR ON CURRENT ABOVE SET POINT	N/O	Com	N/C	OFF	N/C	Com	N/O	ON

OPERATIONS MODE

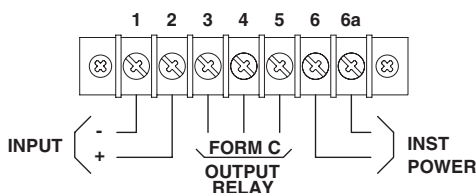
*Under Current

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.

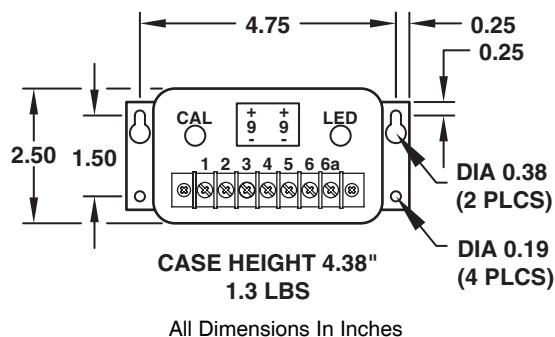
**Over Current

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



SPECIFICATIONS

INPUT

Current Ranges See Table
Burden Any Range 0.5VA Max.
Overcurrent Any Range 25Aac

50Aac (10 Sec/Hr)
250Aac (1 Sec/Hr)
Frequency Nom. 60Hz, 50 to 425 Hz
Set Point (Digital) 01 - 99 %, 01 minimum
Hysteresis + 1 Digit

Dielectric Test (Input/Output/Case) 1500Vac
Internal Program Switch 8 Position DIP switch
Instrument Power 85-135Vac, 50-400Hz, 2.5VA

Current Detection 5A Range Current at 80mA
10A Range Current at 160mA
15A Range Current at 200mA
20A Range Current at 220mA

OUTPUT

ACCURACY Setpoint + 2 digits
Relay Form C, SPDT
Rating 120Vac, 3 Amps
Mechanical Operations 1 Million
Response Time to 90% ... 5A Range 200 milliseconds
10A Range 250 milliseconds
15A Range 350 milliseconds
20A Range 550 milliseconds

FLEX-CORE®

Div. Morlan & Associates, Inc.

6625 McVey Blvd. Columbus, Ohio 43235

WWW.FLEX-CORE.COM

sales@flex-core.com

PHONE (614) 889-6152

TECH. ASSISTANCE (614) 876-8308

FAX # (614) 876-8538