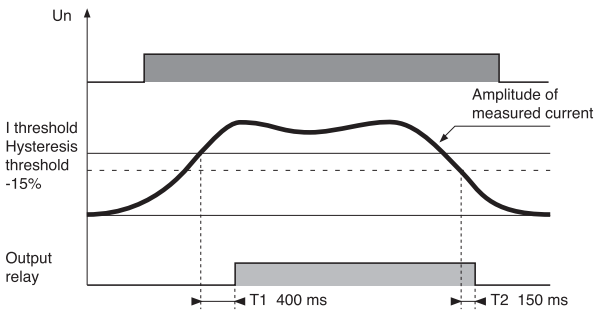
MCI SERIES
CURRENT CONTROL RELAY

UL listed cUL listed

- **Simple to Install**
- **Built in Current Transformer**
- **1 to 20 Amp Current Control**
- **Space Saving 17.5mm Wide Enclosure**



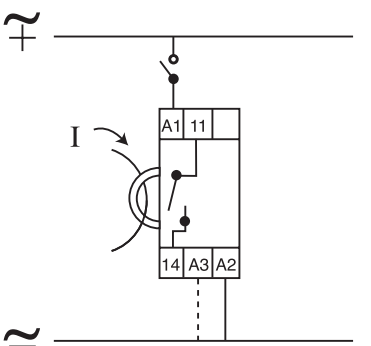
When the value of the controlled AC current reaches the threshold displayed on the front face, the output relay changes state at the end of T1 (400 ms fixed). It returns to its initial position at the end of T2 (150 ms fixed), when the controlled current drops below the displayed threshold minus the fixed hysteresis of 15%.

Simple to install. 1.) Run the electric cable through the current transformer on the unit. 2.) Set the over current control threshold between 1 and 20 A. 3.) Connect power to the MCI.

SPECIFICATIONS:

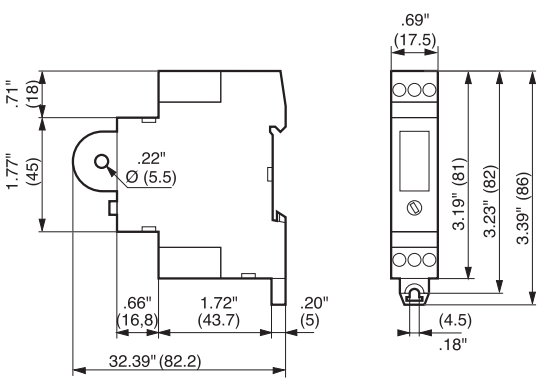
Input power	24 VAC/VDC, 110 to 240 VAC, 50/60 Hz
Input power operating range	24 VAC/VDC ±15% 90 to 260 VAC
Maximum power consumption	10 VA
Hysteresis	Fixed at -15% Threshold
Display accuracy of preset threshold	±10% of full scale
Repetition accuracy with constant parameters	±.5%
Temperature drift	0.08%
Voltage drift	0.01%/degree C
Power up delay	150 ms max.
Delay on threshold overrun T1	400 ms
Delay on downward crossing on threshold T2	150 ms
Output relay	SPST NO
Maximum output rating	5 Amp
Operating relay	+14° to +140°F (-10°C to 60°C)
Storage temperature	-22° to +150°F (-30°C to 70°C)
Weight	3 oz. (85g)
Conformity to EC Standards	Level 3 according to EN 1000-4-2 Level 3 according to EN 1000-4-3 Level 3 according to EN 1000-4-4 Level 3 according to EN 1000-4-5

WIRING DIAGRAM:



Input Voltage Connection: A1&A2 is 110 TO 240VAC
A1&A3 is 24 VDC/VAC

DIMENSIONS: inches (mm)



ORDERING INFORMATION:

Voltage	Part Number
24 VAC/VDC	84 871 102
110 - 240 VAC	

Products and specifications subject to change without notice.

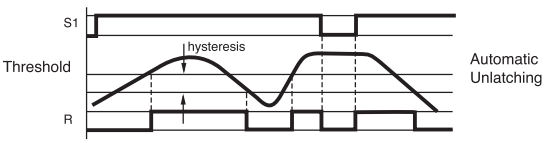
Order/Technical Support – Tel: (800) 677-5311 / FAX: (800) 677-3865 / www.crouzet-usa.com

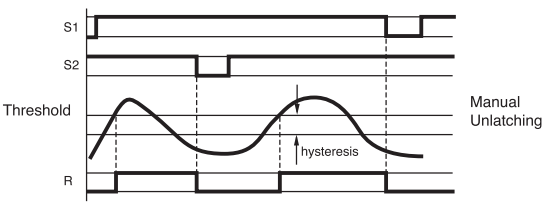
IR.T SERIES
CURRENT CONTROL RELAY

UL listed CSA recognized

- **Automatic or Manual Control**
- **Start-up Inhibit**
- **Adjustable Hysteresis**
- **Multiple Voltages**
- **LED Relay Status Indicator**

1. AC Current Control Without Latching:
   The output relay is energized when the current (peak current on AC) overshoots the level selected on the potentiometer. It de-energizes when the current falls below the normal current by 5 to 50% or when input power breaks. The hysteresis is controlled by a top mounted potentiometer and its selection does not change the chosen current level.
2. AC Current Control With Latching:
   The output relay is energized when the current reaches the selected value and stays latched. The contact between terminal B1 and B2 (or 11 and 9) should be opened or input power to the device interrupted to reset. In this case, it is preferable to reduce the hysteresis 5%.





SPECIFICATIONS:

Input . . . . . 24 VDC, 24, 48, 110, 220 VAC ±15%, 50/60 Hz
Power consumption . . . . . 3 VA maximum

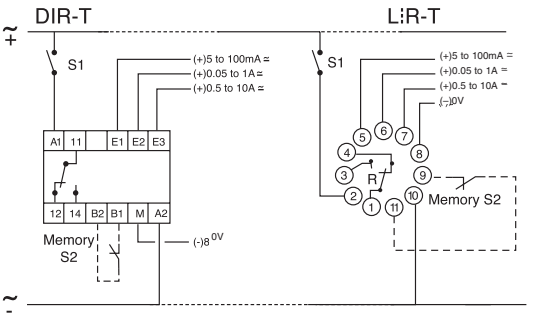
CONTROL RANGE DC CURRENT	CONTROL RANGE AC CURRENT	INPUT RESISTANCE	PERMITTED PERMANENTLY	OVERLOAD LESS THAN 1 sec Peak
5 to 100 mA	3.5 to 70.7 mA	1 ohm	1.5 V	5 A
0.05 to 1 A	0.035 to 0.707 A	0.1 ohm	5 A	17 A
0.5 to 10 A	0.35 to 7.07 A	0.01 ohm	15 A	55 A

Hysteresis selection . . . . . 5 to 50% of input current
Repeat accuracy . . . . . ±2% at a constant ambient
Response time . . . . . 100 ms On Make
200 ms On Break
Output Relay . . . . . SPDT Relay
Contact material . . . . . AgCdO
Maximum loading . . . . . 10 A AC resistive 1 A DC inductive
Maximum switching voltage . . . . . 250 VAC or DC
Relay maximum power rating . . . . 2500 VA 30W
Mechanical life of relay . . . . . 30 x 10^4 operations
Electrical life of relay . . . . . 2 x 10^5 at 2500 VA resistive load
Operating temperature . . . . . +14°F to + 140°F -10°C to +60°C
Weight . . . . . 7 oz. (200g)

Option: 24 VDC power - the voltage and the measured current must be from separate sources.

Note: It is recommended that the unit be adequately fused.

WIRING DIAGRAM:



Note: Upon energization of the current control IR.T Series Relay, the time delay, which is adjustable from .1 to 10 seconds, inhibits the output relay during start-up periods. The delay time is adjustable via a potentiometer located on the side of the case. Applies to both versions, with and without latching.

ORDERING INFORMATION:

L — MOUNTING
IR.T — SERIES
110A — INPUT POWER

MOUNTING
D = DIN-rail mounting
L = 11 pin plug-in

SERIES
IR.T

INPUT POWER
24D = 24VDC
24A = 24VAC
48A = 48VAC
110A = 110VAC
220A = 220VAC

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