

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

ORDERING INFORMATION:

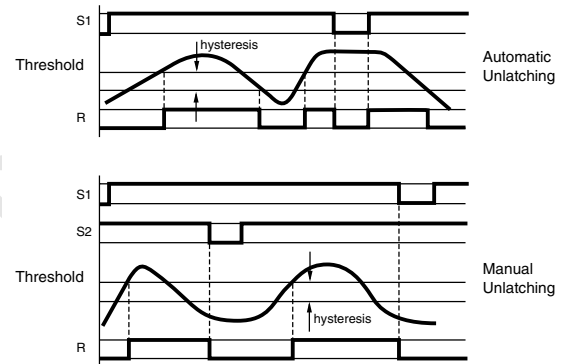
L
MOUNTING

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

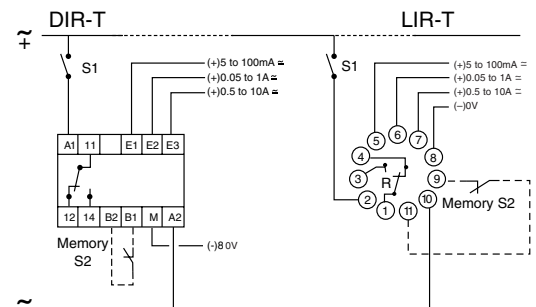
IR.T
SERIES
IR.T

110A
INPUT POWER

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



WIRING DIAGRAM:

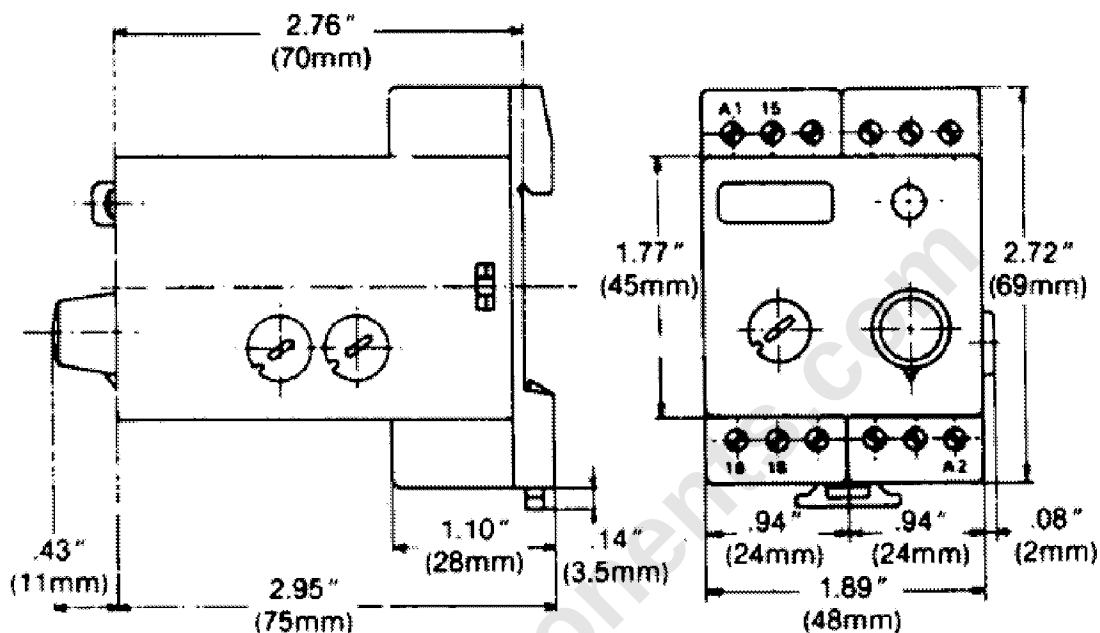


Note: Upon energization of the current control IR.T Series Relay, the time delay, which is adjustable from .1 to 10 seconds, inhibits the output relay during start-up periods. The delay time is adjustable via a potentiometer located on the side of the case. Applies to both versions, with and without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

Products and specifications subject to change without notice.
Consult factory for application assistance.

DIMENSIONS:

D - DIN-Rail



L & P - Sockets

