UR SERIES
VOLTAGE CONTROL RELAY
UL listed   CSA recognized

- AC or DC Voltage Control
- Manual or Automatic Operation
- Adjustable Threshold
- 5 to 50% Hysteresis Range
- LED Relay Status Indicator

1. AC/DC voltage control without latching:
The output relay is energized when the voltage (AC peak voltage) exceeds the selected threshold. It de-energizes when the voltage falls below the hysteresis setting (5 to 50%) or when supply breaks. The hysteresis is controlled by a potentiometer and its selection does not change the chosen threshold.

2. AC/DC voltage control with latching:
The output relay is energized when the voltage reaches the selected threshold and stays latched in this position. The contact between terminal B1 and M (or 8 or 9) should be opened or the input power of the device interrupted to reset.

SPECIFICATIONS:

Input ........................................... 24 VDC, 24, 48, 110, 220 VAC ±15%, 50/60 Hz
Power consumption .......................... 24 VAC: 1 VA
........................................... 48 VAC: 1.2 VA
........................................... 110 VAC: 3.5 VA
........................................... 220 VAC: 7 VA

Control Range | Input Resistance | Acceptance load (input) |
---------------|-----------------|------------------------|
AC or DC 0.1 to 10 V | 10 kΩ | 50 V |
| 0.4 to 40 V | 40 kΩ | 100 V |
| 4 to 400 V | 400 kΩ | 750 V |
Hysteresis selection ~ 5 to 50% of set point
Repeat accuracy ~ ±2% at a constant ambient
Output Relay SPDT Relay
Contact material AgCdO
Maximum loading 10 A AC resistive 8 A DC inductive
Maximum switching voltage 250 VAC 250 VDC
Relay maximum power rating 2200 VA
Transient protection 2500 volts 30 W
Mechanical life of relay 30 x 10^6 operations
Electrical life of relay 2 x 10^7 at 2400 VA resistive load
Repetition accuracy ~ ±0.5% at a constant ambient
Response time 100 ms on make
| 200 ms on break |
Operating temperature -4°F to +140°F -20°C to +60°C
Weight ........................................... 7 oz. (200g)

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

ORDERING INFORMATION:

- 24 A = 24VDC
- 24A = 24VAC
- 48 A = 48VDC
- 110A = 110VAC
- 220A = 220VAC

Products and specifications subject to change without notice.

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• Multiple AC/DC Voltages
• 5 to 20% Hysteresis Adjustment
• Automatic Operation
• Adjustable Threshold

The voltage threshold SR Relay controls a voltage supply which is its own supply. The output relay is energized when the supply (effective for AC) exceeds the selected threshold. It de-energizes when the controlled supply falls below (5 to 20% Hysteresis) of the supply voltage or when the input power breaks. Hysteresis is controlled by a potentiometer and its selection does not change the chosen threshold. Pulses or drops of 100ms or less are ignored.

SPECIFICATIONS:

Input ........................................... 12 VDC, 24 VAC, 24 VDC, 48 VAC
48 VDC, 110 VAC, 220 VAC, 50/60 Hz
-20% to +30% DC,
-30% to +15% AC

Maximum power consumption ............................
24 VAC: 1.5 VA 24 VDC: .6 W
24 VAC: 2 VA 24 VDC: .8 W
110 VAC: 5 VA 48 VDC: 1.8 W
220 VAC: 11 VA

Residual ripple ..............................................<Hysteresis value
Output relay .............................................. SPDT Relay
Contact material ...................................... AgCdO
Maximum loading ...................................... 10 A AC resistive 8 A DC inductive
Maximum switching voltage ......................... 250 VAC 250 VDC
Maximum power rating ................................ 2200 VA 90 W
Mechanical life of relay .................. 30 x 10^6 operations
Electrical life of relay ............................. 2 x 10^4 at 2200 VA resistive load
Operating temperature ...................... +14°F to 140°F -10°C to +60°C
Weight ............................................. 2.8 oz. (100g)

ORDERING INFORMATION:

L MOUNTING

D = DIN-rail or panel mounting
L = 11 pin plug-in
P = 8 pin plug-in

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