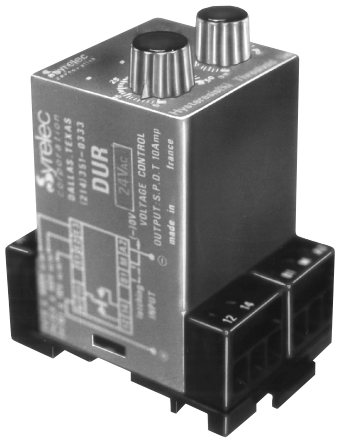
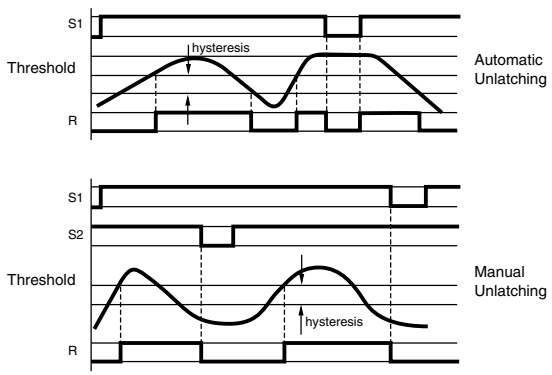
UR SERIES
VOLTAGE CONTROL RELAY

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:

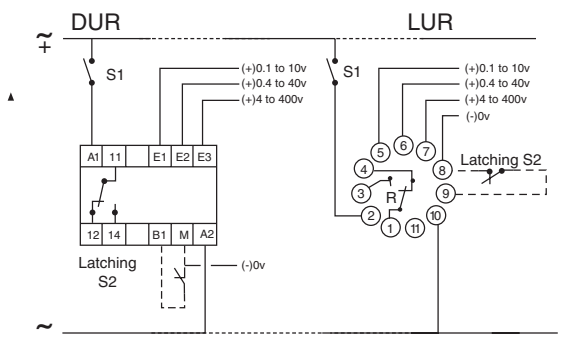
Input . . . . . 24 VDC, 24, 48, 110, 220 VAC ±15%, 50/60 Hz
Power consumption . . . . . 24 VAC: 1 VA
48 VAC: 1.2 VA
110 VAC: 3.5 VA
220 VAC: 7 VA

Control Range AC or DC	Input Resistance	Acceptance load (input) Permanent (max)	Less than 10ms peak max.
0.1 to 10 V	10 kΩ	50 V	100 V
0.4 to 40 V	40 kΩ	100 V	300 V
4 to 400 V	400 kΩ	440 V	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 10^5 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.

WIRING DIAGRAM:



ORDERING INFORMATION:

D — MOUNTING
UR — SERIES
24A — INPUT POWER

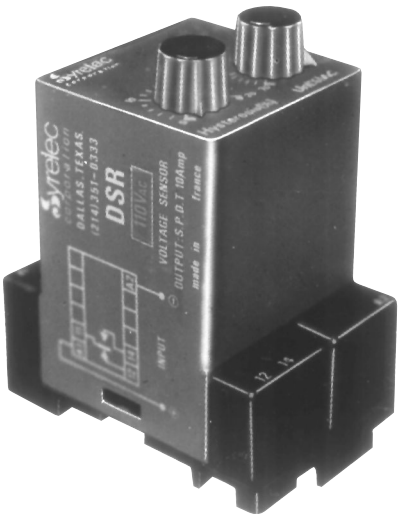
MOUNTING
D = DIN-rail mounting
L = 11 pin plug-in

SERIES
UR
UR SP50

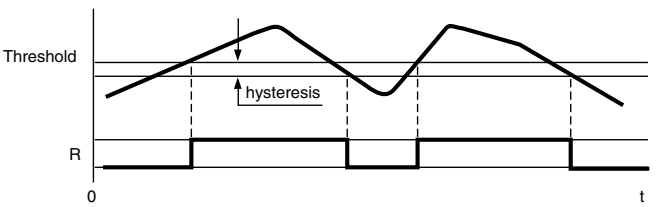
INPUT POWER
24A = 24VAC
24D = 24VDC
48A = 48VAC
110A = 110VAC
220A = 220VAC

SR SERIES
UNDER VOLTAGE RELAY

UL listed CSA recognized



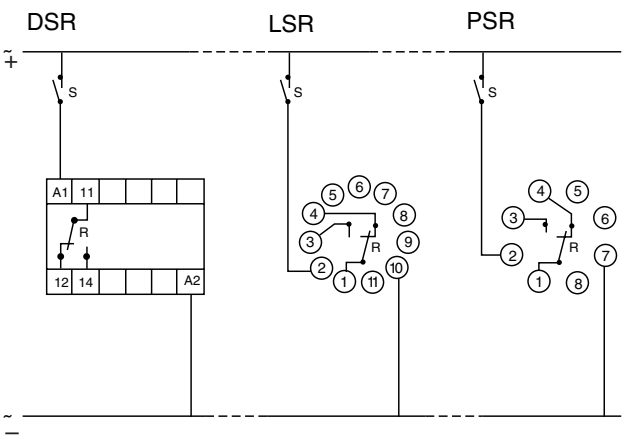
- **Multiple AC/DC Voltages**
- **5 to 20% Hysteresis Adjustment**
- **Automatic Operation**
- **Adjustable Threshold**



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 48 VAC: 2 VA 110 VAC: 5 VA 220 VAC: 11 VA	24 VDC: .6 W 24 VDC: .8 W 48 VDC: 1.8 W
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	80 W
Mechanical life of relay	30 x 10^6 operations	
Electrical life of relay	2 x 10^5 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
SR — SERIES
24 — INPUT POWER

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

SERIES
SR

INPUT POWER
12 = 12 VDC
24D = 24 VDC
24A = 24 VAC
48D = 48 VDC
48A = 48 VAC
110 = 110 VAC
220 = 220 VAC

Products and specifications subject to change without notice.

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