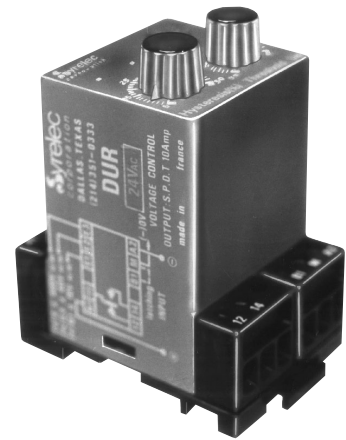


# UR SERIES

## 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**

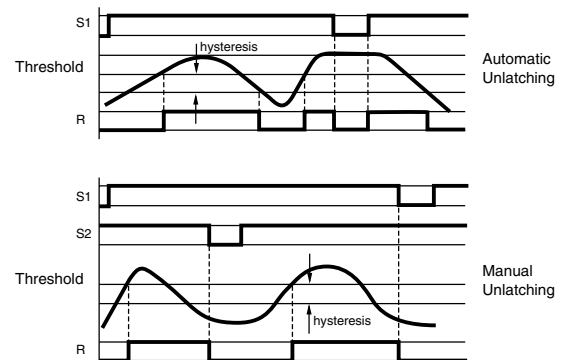


### 1. AC/DC voltage control without latching:

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                                      |
| 0.1 to 10 V                | 10 kΩ                                         |
| 0.4 to 40 V                | 40 kΩ                                         |
| 4 to 400 V                 | 400 kΩ                                        |
| 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 <sup>6</sup> operations               |
| Electrical life of relay   | 2 x 10 <sup>5</sup> at 2400 VA resistive load |
| Repetition accuracy        | ±0.5% at a constant ambient                   |
| Response time              | 100 ms on make<br>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:

**D**  
MOUNTING

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

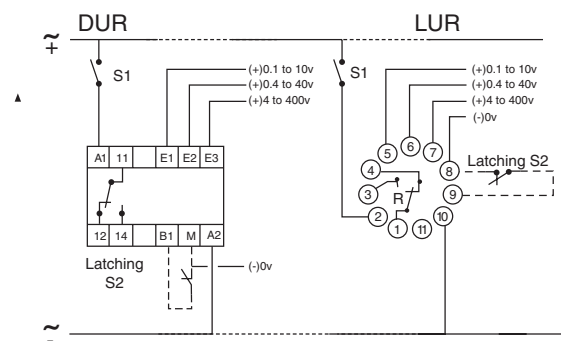
**UR**  
SERIES

**SERIES**  
UR  
UR SP50

**24A**  
INPUT POWER

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

### WIRING DIAGRAM:



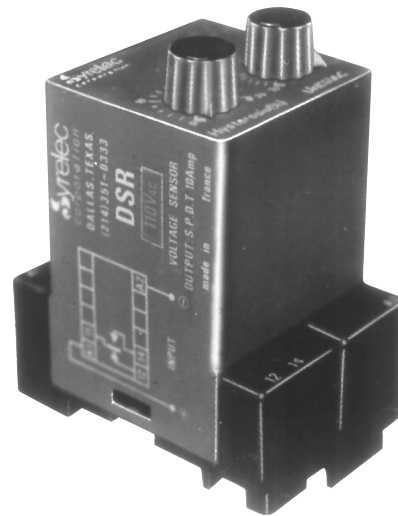
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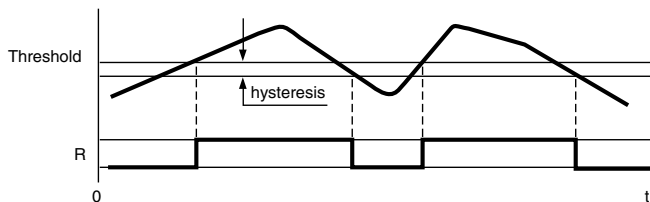
# SR SERIES

## UNDER VOLTAGE RELAY

UL listed CSA recognized



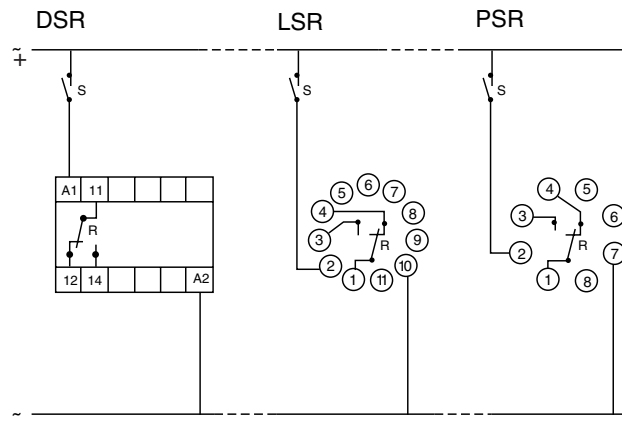
- **Multiple AC/DC Voltages**
- **5 to 20% Hysteresis Adjustment**
- **Automatic Operation**
- **Adjustable Threshold**



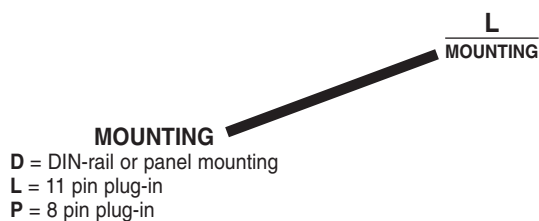
The voltage threshold SR Relay controls a voltage supply which is its own supply. The output relay is energized when the supply (effective for AC) exceeds the selected threshold. It de-energizes when the controlled supply falls below (5 to 20% Hysteresis) of the supply voltage or when the input power 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:

|                                  |                                                                                                              |                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|------------------|
| <b>Input</b>                     | .12 VDC, 24 VAC, 24 VDC, 48 VAC<br>48 VDC, 110 VAC, 220 VAC, 50/60 Hz<br>-20% to +30% DC,<br>-30% to +15% AC |                  |
| <b>Maximum power consumption</b> | .24 VAC: 1.5 VA                                                                                              | 24 VDC: .6 W     |
|                                  | 48 VAC: 2 VA                                                                                                 | 24 VDC: .8 W     |
|                                  | 110 VAC: 5 VA                                                                                                | 48 VDC: 1.8 W    |
|                                  | 220 VAC: 11 VA                                                                                               |                  |
| <b>Residual ripple</b>           | <Hysteresis value                                                                                            |                  |
| <b>Output relay</b>              | .SPDT Relay                                                                                                  |                  |
| <b>Contact material</b>          | AgCdO                                                                                                        |                  |
| <b>Maximum loading</b>           | .10 A AC resistive                                                                                           | 8 A DC inductive |
| <b>Maximum switching voltage</b> | .250 VAC                                                                                                     | 250 VDC          |
| <b>Maximum power rating</b>      | .2200 VA                                                                                                     | 80 W             |
| <b>Mechanical life of relay</b>  | .30 x 10 <sup>6</sup> operations                                                                             |                  |
| <b>Electrical life of relay</b>  | .2 x 10 <sup>6</sup> at 2200 VA resistive load                                                               |                  |
| <b>Operating temperature</b>     | +14°F to 140°F                                                                                               | -10°C to +60°C   |
| <b>Weight</b>                    | .2.8 oz. (100g)                                                                                              |                  |



### ORDERING INFORMATION:



**SR**  
SERIES  
|  
SERIES  
SR

**24**  
INPUT POWER

### INPUT POWER

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

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