

VCN-20

Voltage control relay for one phase network

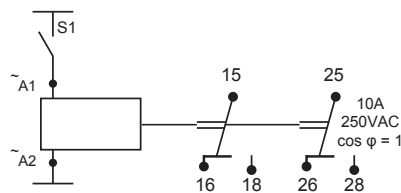


- Measures its own supply voltage.
- Monitors AC or DC voltage.
- Minimum and maximum thresholds can be adjusted separately.
- Fixed hysteresis.
- 3 LED's indicates Over voltage, Under voltage and relay status.
- Timing on the event of over / under voltage, can be adjusted between 0.1 to 10 seconds.
- Not effected by harmonic distortion.
- 2 changeover relay outputs.

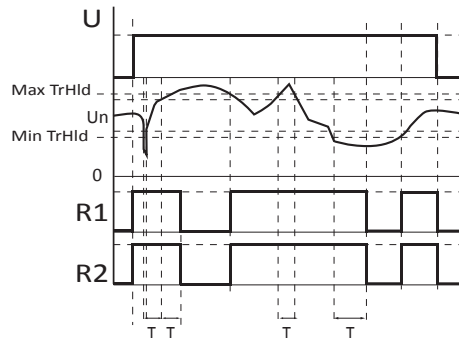
Dimensions & weight

- Width: 62 mm
- Height: 65 mm
- Depth (excl. DIN-profile): 75 mm
- Weight: 141 gram

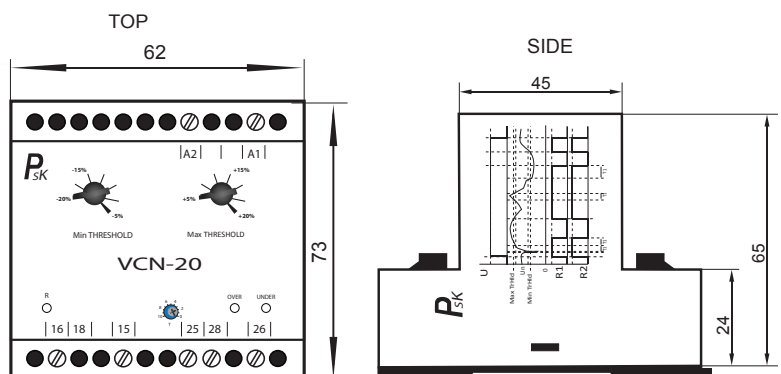
Connections



Function



Dimensions



Operating

Output relay energizes if the supply voltage is within the max and min threshold sets. The relay de-energize if the voltage goes outside these thresholds for longer than time (T) set on the front panel or when supply breaks. The 3% hysteresis ensures clean relay switching at each threshold. Timing (T) on overrun of the low and high threshold provides protection against power-line disturbance.

Red LED displays relay status
 Yellow Led displays OVER VOLTAGE.
 Green LED displays UNDER VOLTAGE.

General specifications

- Frequency: 50 / 60Hz
- Power consumption: 1.8 VA
- Duty cycle: 100%
- Protection class open air: IP20
- Protection class enclosed: IP40
- Self-extinguishing plastic housing UL V0 acc IEC 529
- Mounting position: on DIN-rail TS 35 according to EN 50022
- Terminal : acc IEC 60947-7-1, IEC 60998-1
- Terminal Capacity: 1x4mm² without multicore cable end
 1x0.5 to 2.5mm² with/without multicore cable end

Output circuit

- Relay: 1 C/O
- Rated voltage: 250 Vac
- Switching capacity ac: (4A / 250V) COS φ = 1
- Switching capacity dc: 3 A 30 Vdc
- Max switching capacity ac: 5 A
- Mechanical life: 1 x 10⁶ operations
- Electrical life at 1000 VA COS φ=1: 200.000 operations

Environmental conditions

- Permissible ambient temperature: -20°C....+50°C
- Storage temperature: -25°C....+70°C
- Transport temperature: -25°C....+70°C
- Relative humidity (acc. IEC 721-3-3 CLASS 3K3): 15% to 85%
- Vibration resistance (acc. IEC 68-2-6): 10 TO 55 H

Ordering information

VCN - 20 - AC - V
 VCN - 20 - DC - V

230VAC	110VDC	
110VAC	60VDC	
24VDC	48VDC	
12VDC	30VDC	
12VAC	24VAC	

Voltage monitoring relay

