VOLTAGE MONITOR RELAYS

VW SERIES VOLTAGE BAND (WINDOW)

12-120V PLUG-IN



- Monitors AC single phase and DC voltages
- Provides voltage band (window) protection
- Wide range of user-adjustable Over Voltage and Under Voltage settings
- Fixed or adjustable time delay on drop-out
- LED indicates output relay status
- Compact plug-in case utilizing industry standard 8 pin octal socket
- 10A DPDT output contacts

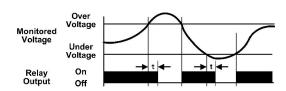




(with appropriate socket)

Voltage Band Relays provide protection to equipment that is required to operate within an upper & lower voltage limit. As long as the operating voltage remains within an OVER & UNDER voltage range, the internal relay stays energized. If the operating voltage falls outside this range, the relay will drop-out.

When nominal operating voltage with a value between the UPPER & LOWER setting is applied, the internal relay will energize (Pick-up). If the operating voltage falls outside the preset OVER trip point (adjustable 100-125% of



nominal) or UNDER trip point (adjustable 75-100% of nominal) for a period longer than the drop-out time delay (t), the relay will de-energize (Drop-out). When the voltage returns to normal (within the preset OVER & UNDER trip points), the unit automatically resets and the relay energizes. Choose between a unit with fixed drop-out time of 500ms or one with an adjustable 0.5-10 second drop-out time.

Fixed Drop-Out Time Delay (500ms)

NOMINAL VOLTAGE 24V AC 120V AC	OVER VOLTAGE RANGE 24-30V AC 120-150V AC	UNDER VOLTAGE RANGE* 18-24V AC 90-120V AC	PRODUCT NUMBER VWP024A VWP120A	WIRING/ SOCKET 8 Pin Octal 70169-D
12V DC	12-15V DC	9-12V DC	VWP012D	NONITORED VOLTAGE DIAGRAM 20
24V DC	24-30V DC	18-24V DC	VWP024D	
48V DC	48-60V DC	36-48V DC	VWP048D	
110V DC	110-137V DC	83-110V DC	VWP110D	

Adjustable Drop-Out Time Delay 0.5 - 10 Seconds

NOMINAL VOLTAGE	OVER VOLTAGE RANGE	UNDER VOLTAGE RANGE*	PRODUCT NUMBER	WIRING/ SOCKET
24V AC	24-30V AC	18-24V AC	VWKP024A	8 Pin Octal
120V AC	120-150V AC	90-120V AC	VWKP120A	70169-D
				45 6
12V DC	12-15V DC	9-12V DC	VWKP012D	NONITORED VOLTAGE DIAGRAM 20
24V DC	24-30V DC	18-24V DC	VWKP024D	
48V DC	48-60V DC	36-48V DC	VWKP048D	
110V DC	110-137V DC	83-110V DC	VWKP110D	

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800-238-7474 www.macromatic.com sales@macromatic.com

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VOLTAGE MONITOR RELAYS

VW SERIES VOLTAGE BAND (WINDOW)

12-120V PLUG-IN APPLICATION DATA & DIMENSIONS

APPLICATION DATA

Voltage Tolerance:

+25%/-50% of nominal voltage; AC voltages are 50-60Hz; No separate supply (input) voltage is required.

Load (Burden): Less than 3VA

Voltage Settings:

Over Voltage: 100-125% of Nominal Voltage Under Voltage: 75-100% of Nominal Voltage

Temperature:

-28° to 55° C (-18° to 131° F)

Indicator LED: Red Steady when Relay is energized; Green

when Relay is Off.

Reset: Automatic.

Response Times:

Operate: 500ms

Release: Fixed 500 ms (VWP Series)

Adjustable 0.5 -10 Seconds (VWKP Series)

Output Contacts:

10A @ 240V AC/30V DC, 1/2HP @ 120/240V AC (N.O.), 1/3HP @ 120/240V AC (N.C.)

Life:

Mechanical: 10,000,000 operations Full Load: 100,000 operations

Transient Protection:

10,000 volts for 20 microseconds

Approvals:

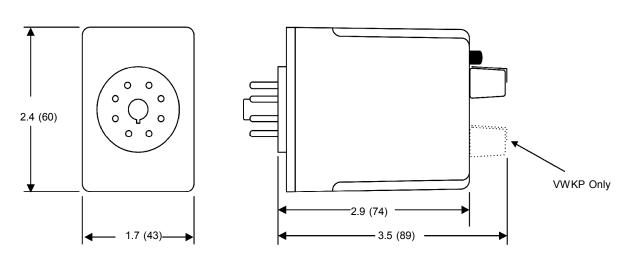




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Low Voltage & EMC Directives EN60947-1, EN60947-5-1

DIMENSIONS



All Dimensions in Inches (Millimeters)