CE - Rvc -Monitoring voltage relay 1RVCR1-01.02 **Instruction Manual**



General

- Applications
 - -Protect electrical equipment and motors from over-voltage and under-voltage.
 - -Normal/emergency power supply switching.
- Function Features
 - -Controls its own supply voltage(True RMS measurement) -.User may select operation mode through knob.
 - Voltage measurement accuracy<1%.
 - Relay status is indicated by LED.
 - 1-MODULE, DIN rail mounting.
- Model and connotation

 $1RVCR1 - \Box / \Box$

-Rated control supply voltage:

Rated supply voltage code	Rated supply voltage	Supply voltage limits	Range of adjustment
D12	DC 12V	DC 720V	DC 915V
AD48	AC/DC 2448V	AC/DC 15100V	AC/DC 2080V
AD240	AC/DC 110240V	AC/DC 50270V	AC/DC 65260V
A220	AC 220V	AC 160270V	AC 180260V

- Function mode:
- 01 Over/under voltage in windows mode
- 02 Overvoltage Undervoltage
- 1RVCR1 Series

Technical parameters

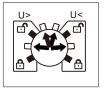
Technical parameters	1RVCR1-01	1RVCR1-02	
Function	Monitoring voltage		
Supply terminals	A1-A	2	
Rated supply voltage	DC12V,AC/DC24V-48V,AC/DC110V-240V,AC220V		
Rated supply frequency	45H:	z-65Hz,0	
Hysteresis	5%-20%	3%fixed	
Supply indication	green LED		
Time delay	Adjustable 0.1s-10s,10%		
Measurement error	≤1%		
Run up delay at power up	0.5s time delay		
Konb setting accuracy	5% of scale value		
Reset time	1000ms		
Temperature coecient	0.05%/°C,at=20°C(0.05%°F , at=68°F)		
Output	1×S	PDT	
Current rating	10A/	AC1	
Switching voltage	250VAC/24VDC		
Min.breaking capacity DC	500mW		
Output indication	red LED		
Mechanical life	1×10 ⁷		
Electrical life(AC1)	1×10 ⁶		
Operating temperature	-20℃ to +55℃(-4℃ to 131℃)		
Storage temperature	-35℃ to +75℃(-22℃F to 158℃F)		
Mounting/DIN rail	Din rail EN/IEC 60715		
Protection degree	IP40 for front par	nel/IP20 terminals	
Operating position	é	any	
Overvoltage cathegory	III.		
Pollution degree	2		
Max.cable size(mm ²)	solid wire max.1 \times 2. 5 or 2 \times 1. 5/with sleeve max.1 \times 2. 5 (AWG 12)		
Dimensions	90×18×64mm		
Weight	64	4g	
Standards	IEC/EN 602	55-1,IEC60947-5-1	

Panel Diagram

	Supply indication(green)
- Rvc -	
	Output indication(red)
	Operating function selector
30 - 70 20 - 80V 10 12 14 AC/DC 8 - 416	Voltage threshold setting
	Hysteresis setting
0.1 56 Tt	Time delay setting
1RVCR1-01	
	Supply indication(green)

- RVC -	
40, 50 AC/DC	Output indication(red)
30 - 70 U> 20 - 60V 4 - 6 2 - 60V	Overvoltage threshold setting
0.1 50 F100 40 50 AC/DC	Time delay setting
20	Undervoltage threshold setting
1RVCR1-02	

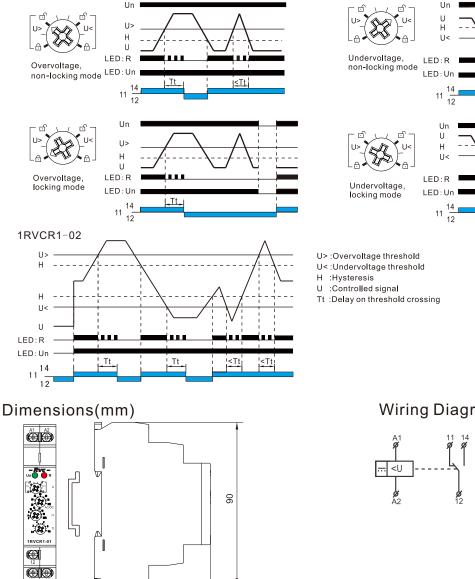
Wrong setting of 1RVCR1-01



As shown in the figure above, they are wrong settings. In that cases , LED-Un and LED-R will flash at the same time, which indicate the setting error. Normal operation will be resumed through resetting after power-off If the operating function is changed after power-on, the two LED indicators would flash while the relay operates based on original operating functions; the LED would resume the normal indication after the original setting is recovered.

Functions Diagram





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Disposal of Electrical Waste All electrical waste should be disposed of in compliance with current WEEE regulations.

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Caution

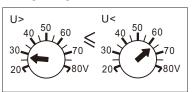
The products must be installed by qualified electricians. All and any electrical connections of the time relay shall comply with the appropriate safety standards.



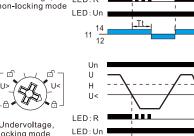
Via G.Di Vittorio 13 – 20017 Rho (MI) - ITALY www.revalcointernational.it info@revalcointernational.it

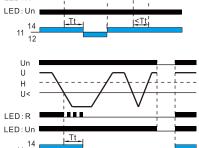


Wrong setting of 1RVCR1-02



The set overvoltage threshold value must be larger than undervoltage threshold value. Otherwise, all LEDs would flash and the output relay would be disconnected.





Wiring Diagram

