

CVR12 & CVR24 DC Voltage Monitoring Units



- Battery under voltage relay
- Battery over voltage relay
- Delay on under voltage
- 11 Pin relay format
- Monitors its own supply

Description

BATTERY / DC VOLTAGE MONITORING UNITS 11 PIN PLUG-IN TYPE

These units have been configured to monitor the voltage of their own DC supply. They are particularly suited to applications where an auxiliary supply is either unavailable or undesirable. For instance, when monitoring the float voltage of a standby battery system.

The trip levels are factory set at the customer specified levels.

Each unit contains 2 single pole change-over relays, one for under voltage and one for over voltage. The under voltage relay can be delayed for 0-300 seconds, and de-energises on fault. The over voltage relay has no delay and energises on fault.

Under Voltage

If the voltage falls below the low voltage set point, the override delay timer is activated. Failure of the voltage to rise above the set point for the duration of the timer will cause the under voltage relay to de-energise indicating a fault. The relay will remain de-energised until the voltage rises above the set point.

Over Voltage

If the voltage rises above the high voltage set point, the high voltage relay will energise. The relay will remain energised until the voltage drops below the high voltage set point.

Product Specification

Power Supply:

nominal operating voltages	9-32VDC
loss of control & time delay	4VDC on 12VDC system 8VDC on 24VDC system

Relays:

relay type	2 x volt free SPDT contacts over relay - energised on fault under relay - de-energised on fault
contact rating	1A @ 30VDC (resistive load)

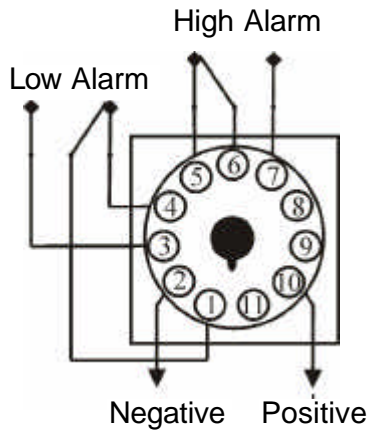
General:

operating temperature	-10 to +55°C
overall dimensions	50 x 50 x 41mm (1.96" x 1.96" x 1.6")
weight	0.1Kg (0.2lbs)
EMC emission / immunity	EN 58801-2 / EN50082-2

Warranty

A one year limited warranty on materials and workmanship is given with this product. Details are available upon request.

Electrical connection

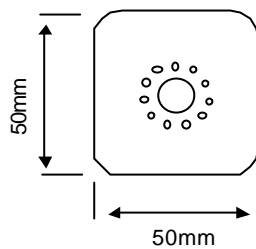


The contacts are shown in an “off the shelf” (or de-energised) condition. The Negative and Positive contacts (2 and 10) are for either supply or sensing operation.

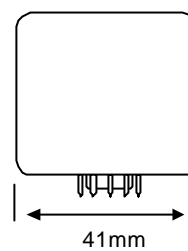
Please note volt free relays are rated at 1 amp @ 30VDC or 120VAC.

Dimensions

BOTTOM VIEW



SIDE VIEW



How to order

When ordering, please specify:-

PRODUCT	Nominal Input VDC	
	12	24
CVR12	•	
CVR24		•

CODE	UNDER VOLTAGE TRIP POINT RANGE	
	12V	24V
	9-16V	18-32V
U*	•	
U*		•

CODE	OVER VOLTAGE TRIP POINT RANGE	
	12V	24V
	9-16V	18-32V
O*	•	
O*		•

CODE	UNDER VOLTAGE TIME DELAY IN SECONDS
	0-300 Seconds
S*	* Please specify

Product	Under volts	Over volts	Time Delay
CVR12	U11.5	O14.5	S120

* = Items marked with a * must be specified to enable us to complete your order.

CVR12 U11.5 O14.5 S120

The above example shows the order code for a 12VDC input relay, with under volts set at 11.5VDC and over volts set at 14.5VDC, and a time delay on under voltage of 120 seconds.

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