

CVR12 & CVR24

Battery High and Low Voltage monitoring relays



- Monitors for healthy or faulty battery voltage
- Independent relay outputs for high and low voltage
- Low voltage override delay
- Compact, 11-pin plug-in case

Description

CVR modules provide automatic, independent monitoring of battery/DC low or high voltage, with two relay outputs for activation of alarm or protection systems. The CVR monitors its own battery/DC supply, with only minimal internal power drain.

The **Low Voltage** relay is energized during healthy battery conditions. If the measured battery/DC voltage falls below the low voltage level, and remains there for the preset delay time, the low volts relay de-energizes. The delay time prevents relay de-energization during normal, temporary battery loading, e.g. during standby engine cranking.

If the voltage returns above the low voltage level, the delay timer resets and the relay stays/becomes energized.

The **High Voltage** relay is de-energized during healthy battery/DC conditions. If the measured voltage rises above the preset high voltage level, the high volts relay immediately energizes. The relay immediately de-energizes again if the battery/DC voltage returns below the high volts level.

The CVR is housed in a compact case with industry-standard 11-pin plug-in connection, supplied complete with a DIN rail/surface mount base for use in an enclosed control panel.

This voltage monitor is offered with a two-year limited warranty on materials and workmanship.

Factory Set Low/High Voltages and Delays:

	Low volts		High volts
	V,DC	Seconds	V,DC
CVR12 Standard	11.0	120	15.5
CVR24 Standard	22.0	120	29.0
CVR12 Non-Standard	9.0-16.0	0-300	9.0-16.0
CVR24 Non-Standard	18.0-32.0	0-300	18.0-32.0

Product Specification

Power Supply:

Maximum Operating Voltages	CVR12: 16V,DC CVR24: 32V,DC
Minimum Operating Voltages (loss of control & time delay)	CVR12: 4V,DC CVR24: 8V,DC

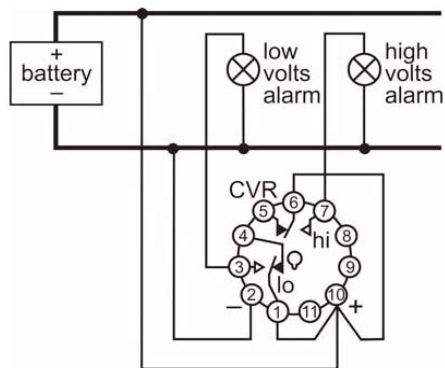
Relay Output:

Contact Type	2 x SPDT contacts, volt-free/dry Low volts: relay de-energized on fault High volts: relay energized on fault
Contact Rating	1A max. @ 30V,DC (resistive load)

Physical:

Operating Temperature	14 to +131°F (-10 to +55°C)
Overall Dimensions	1.97" x 1.97" x 1.69"
Weight	0.22 lbs.
EMC Emission / Immunity	EN58801-2 / EN50082-2

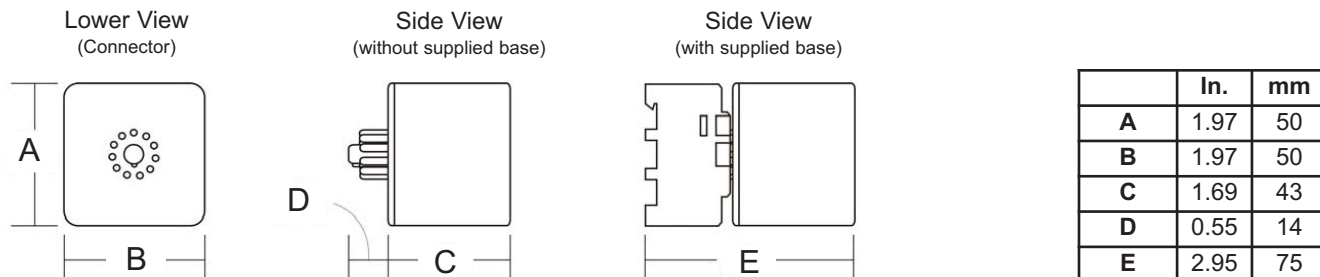
Electrical connection



NOTES:

- 1 Relays shown in de-energized (powered down) state.
- 2 Typical connection shown driving warning lamps. CVR relay outputs (max. rating 1A @ 30V,DC) may also be used to drive slave relays, alarm systems or controllers.
- 3 CVR pin 10 (positive DC) and 2 (negative DC) are used to power the CVR and monitor battery voltage.

Dimensions



How to Order *When ordering, please specify --*

Standard Factory Settings:

Model	Low Volts (V,DC)	Low Volts Delay (sec.)	High Volts (V,DC)
CVR12	11.0	120	15.5
CVR24	22.0	120	29.0

Non-Standard Adjustment Ranges, please specify the factory settings required:

Model	Low Volts (V,DC)	Low Volts Delay (sec.)	High Volts (V,DC)
CVR12-NS	9.0 - 16.0	0-300	9.0 - 16.0
CVR24-NS	18.0 - 32.0	0-300	18.0 - 32.0



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For more information and certifications, please contact:

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