

LVD12 & LVD24

DC Voltage Monitoring Units



- Battery under voltage relay
- Delay on battery disconnect voltage
- 11 Pin relay format
- Monitors it's 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 a load is applied to the battery with no charger present i.e.; battery backup system, where the battery is supplying the load in the event of a mains failure. To prevent irreversible damage to the batteries this unit will give a signal to connect the batteries at a safe set point. This set point is factory set at customer specified levels.

Each unit contains single pole change over relays for battery disconnect voltage, which can be delayed for 0-300 seconds and de-energizes on fault.

Battery Disconnect 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 relay to de-energize. The relay will remain de-energized until the voltage rises above the set point value, plus an additional 2 volts; ie, if setpoint is 10V,DC relay will re-energize at 12V,DC thereby preventing the battery from being reconnected below a safe operating level.

Product Specification

Power Supply:

Nominal Operating Voltage	9V,DC - 32V,DC
Loss of Control & Time Delay	4V,DC on 12V,DC system 8V,DC on 24V,DC system

Relay:

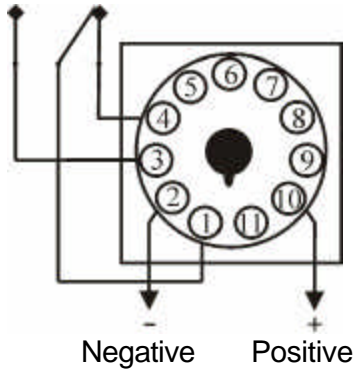
Relay Type	volt free SPDT contacts under relay - de-energized on fault
Contact Rating	1A @ 30V,DC (resistive load)

General:

Operating Temperature	-10 to +55°C
Overall Dimensions	50 x 50 x 41mm
Weight	0.1Kg
EMC Emission / Immunity	EN 58801-2 / EN50082-2

Electrical connection

Low Alarm

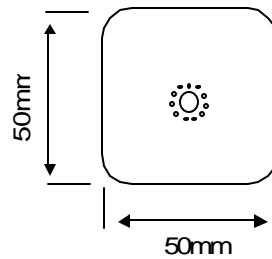


The contacts are shown in an “off the shelf” (or de-energized) condition. The Negative and Positive contacts (2 and 10) are for either supply or sensing operation.

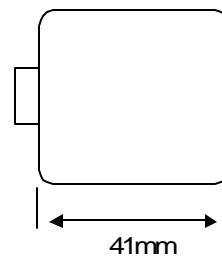
Please note volt free relays are rated at 1 amp @ 30V,DC or 120V,AC.

Dimensions

BOTTOM VIEW



SIDE VIEW



How to order

When ordering, please specify -

PRODUCT	Nominal Input V,DC	
	12	24
LVD12	•	
LVD24		•

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

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

CODE	OPTIONS FOR DIN RAIL MOUNTING
	PLUG-IN BASE
PB	•

Product	Under volts	Time Delay	Option
* = Items marked with a * must be specified to enable us to complete your order.			Insert option when required, if no options are required, leave empty.
LVD12	U11.5	S120	

The above example shows the order code for a 12V,DC input relay, with battery disconnect voltage set at 11.5V,DC, and a time delay of 120 seconds.

	North American Distributor - PC & S / Panel Components & Systems, Inc.		
	149 Main Street Stanhope New Jersey 07874 Phone (800) 523 9194 Fax (973) 448 1674	213 Jespersen Avenue Spruce Grove Alberta T7X 2J1 Phone (877) 962 0557 Fax (780) 962 0557	8539 Monroe Road (Suite 104) Charlotte North Carolina 28212 Phone (704) 535 3357 Fax (704) 535 6288