

LVD12 & LVD24 DC Voltage Monitoring Units



- Battery under voltage relay
- Delay on battery disconnect 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 a load is applied to the battery, with no charge present, i.e. battery back up 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 disconnect the batteries at a safe set point. The trip level is factory set at the customer specified levels.

Each unit contains a single pole change-over relay for battery disconnect voltage which can be delayed for 0-300 seconds and de-energises on low volts.

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-energise. The relay will remain de-energised until the voltage rises above the set point value, plus an additional 2 volts; i.e. if set point is 10VDC, relay will re-energise at 12VDC thereby preventing the battery being reconnected below a safe operating level.

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 | volt free SPDT contacts relay energised on fault |
| contact rating | 1A @ 30VDC (resistive load) |

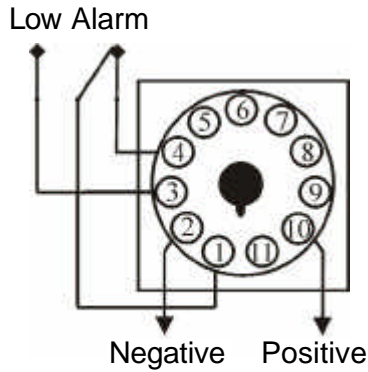
General:

| | |
|-------------------------|------------------------------------------|
| 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.

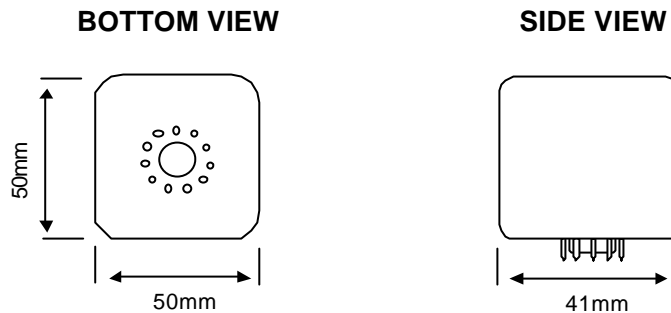
Electrical connection



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.

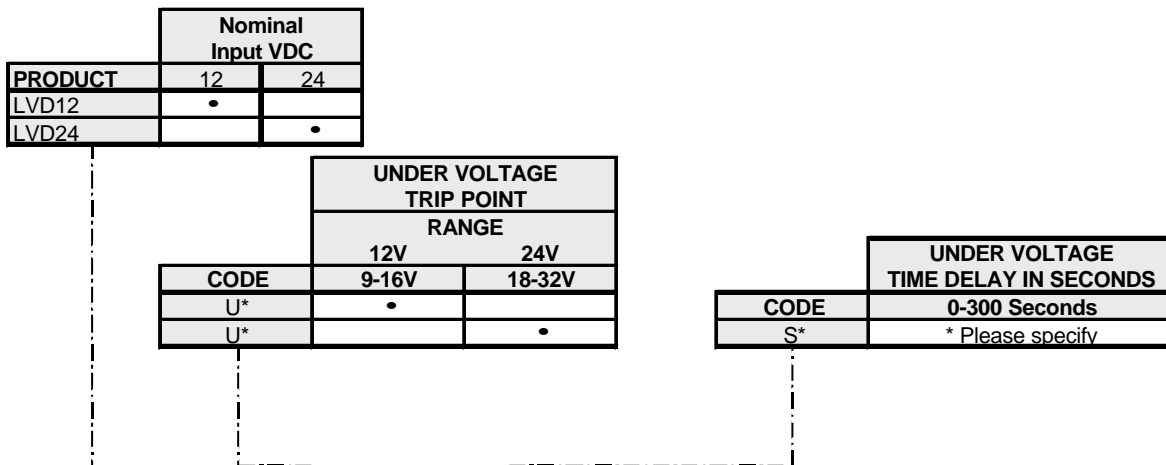
Please note volt free relays are rated at 1 amp @ 30VDC or 120VAC.

Dimensions



How to order

When ordering, please specify:-



Product **Under volts** **Time Delay**

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

LVD12 U11.5 S120

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

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