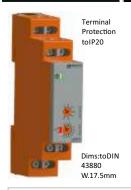
Z-TRAUQ INC.

Battery Voltage Relay

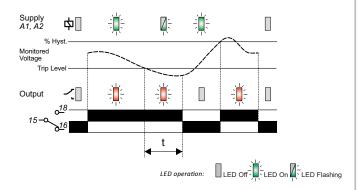


- 17.5mm DIN rail housing
- Microprocessor based
- Suited to 12V and 24V batteries
- Monitors own supply and detects an Under voltage condition
- Adjustment for Under voltage trip level (9 28V)
- Adjustment for Time Delay (from an Under voltage condition)

Installation work must be carried

- 1 x SPDT relay output 8A
- Green LED indication for supply status
- Red LED indication for relay status

FUNCTION DIAGRAM



INSTALLATION AND SETTING

out by qualified personnel. BEFORE INSTALLATION, ISOLATE THE SUPPLY. Connect the unit as required taking note of the polarity of the connections. Terminal A1 is the positive connection and A2 the negative.

Setting the unit.

Set the Under voltage"Trip Level (V) " adjustment to the voltage required. Setthe"Delay(t)" to minimum.

Applying power.

Apply power and the green "Power supply" and red "Relay" LED's will illuminate, the relay will energise and contacts 15 and 18 will close. Refer to the trouble shooting table if the unit fails to operate

If the supply voltage drops below the trip level setting, the green LED will start to flash. The relay will then de-energise (contacts 15 and 18 open) after the delay period "t" and the red LED will extinguish. The green LED will then remain permanently lit.

When the voltage increases above the trip level + hysteresis, then relay will re-energise and red LED illuminate.

Troubleshooting.

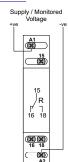
The table below shows the status of the unit during a fault condition.

Supplyfault	GreenLED	RedLED	Relay
No supply	Off	Off	De-energised
Under voltage condition (during timing)	Flashing	On	Energised for set delay (t)
Under voltage condition (after timing)	On	Off	De-energised

TECHNICAL SPECIFICATIONS Supply/monitoring voltage U (A1,A2): 12 - 24VDC Supply variation: 75 - 125% U Power consumption (max.): 3W Monitoring mode: Under voltage Trip level: 9 - 28VDC Hysteresis: ≈ 5% of trip level (factory set) Setting accuracy: + 10% + 0.5% at constant conditions Repeat accuracy: Response time: ≈ 100mS 0-30 Sec. ± 5% Time delay (t): Note: actual delay (t) = adjustable delay + response time Power on delay (Td): ≈ 1sec.(worst case = Td x 2) Power on indication: Green LED Relay status indication: Red LED Ambient temp: -20 to + 60°C Relative humidity +95% SPDT relay Output (15,16,18) : AC1 250V 8A (2000VA) Output rating: AC15 250V 5A (no), 3A(nc) 25V 8A (200W) Electrical life: ≥ 150,000 ops at rated load Dielectric voltage: 2 kVAC (rms) IEC60947-1 Rated impulse withstand voltage: 4 kV (1.2 / 50µS)IEC60664 Housing: Orange flame retardant UL94 Weight: 70g Mounting option: Onto 35mm symmetric DIN rail to BSEN60715 or direct surface mounting via 2 x M3.5 or 4 BA screws using the black clips provided on the rear of the unit. Terminal conductor size: ≤ 2 x 2.5mm² solid or stranded Conforms to IEC.CE, Cand RoHS Compliant. Approvals: EMC: Immunity / Emissions to EN61000-6

cULus Listed

CONNECTION DIAGRAM



<u>SETTING D</u>ETAILS

- 1. Power supply status (Green)LED
- 2. Relay output status (Red)LED
- 3. "Delay" adjustment 4."Under"trip level
- adjustment

