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Battery Voltage Guard BW500

- **Monitoring of battery voltages 12 V, 24 V, 48 V or 60 V**
- **Alarm function under-voltage / over-voltage selectable**
- **Time delay adjustable**
- **Measuring voltage and supply voltage are identical**

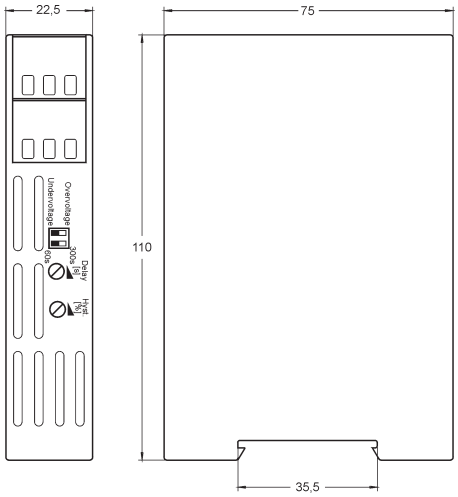
Characteristics

The BW500 is designed for monitoring of battery voltages. Under-voltage or over-voltage can be selected.
Under-voltage:
The relay switches off, if the voltage falls under the limit value and if the delay time ran off.
If the voltage exceeds the limit value + hysteresis, the relay will be activated.
Over-voltage:
The relay switches on, if the voltage exceeds the limit value and if the delay time ran off.
If the voltage falls under the limit value - hysteresis, the relay will be deactivated.

Technical data

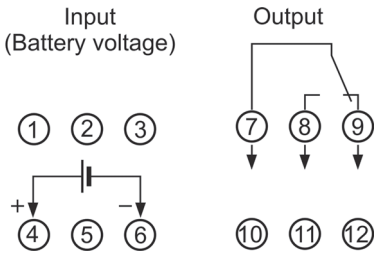
Power supply
Battery voltage : 12 V, 24 V, 48 V or 60 V DC, -30..+40 %
Current consump. : 14 mA (24 mA at 12 V type)
with activated relay
Operating temp. : -10..+60 °C
CE- conformity : EN 61326-1:2013
EN 60664-1:2007
Vibration,- shock- and impact testings
Measuring input/measuring range
12 V : 11..14 V
24 V : 22..28 V
48 V : 44..56 V
60 V : 55..70 V
Scale error : ≤2 %
Output
Relay SPDT : 250 VAC < 250 VA < 2 A; 300 V= < 50 W < 2 A
Alarm function : under-voltage/over-voltage selectable
Hysteresis : 2..16 % adjustable
(related to the nominal battery voltage)
Time delay : in 2-steps switch selectable
1..60 s or 5..300 s adjustable
Case : standard case polycarbonate 8020 UL 94 V-1
acc. to DIN EN 60715:2001-09, DIN rail TS35
Weight : approx. 100 g
Connection : screw terminals, max. 2.5 mm²
Protection class : case IP30, terminal IP20, acc. to BGV A3

Dimensions



DIN rail mounting TS35

Connection diagram



Ordering code

BW500 - 1. - 2. - 3.

1.	**No. of inputs**	
	1	
2.	**Battery voltage / measuring scale**	
	12V	11..14 V
	24V	22..28 V
	48V	44..56 V
	60V	55..70 V
3.	**Options**	
	00	without option