

BATTERY VOLTAGE MONITORING RELAY

Type:
BMCA low
BMCD high & low

FEATURES

- Supply from the battery
- Programmable voltage 12V, 24V, 48V & 110V
- LEDs indicate the state of the input
- Programmable OFF delay 0-10 sec or 0-100 sec
- Programmable Latch for over voltage

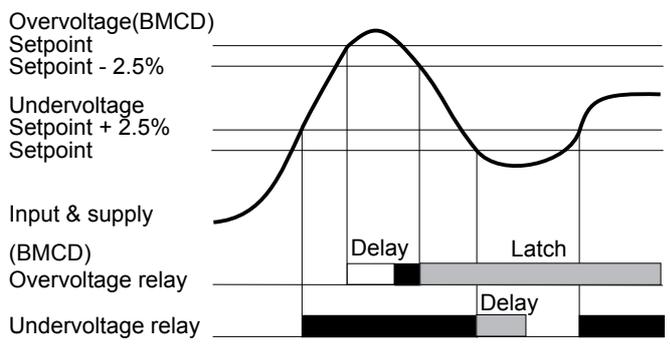
Description:

The BMCA battery voltage relay is designed to measure battery voltage for under voltage. The BMCD battery voltage relay is designed to measure battery voltage for under voltage and over voltage. The relays are Programmable for 12V, 24V, 48V or 110V battery systems, can be set by DIP switch.

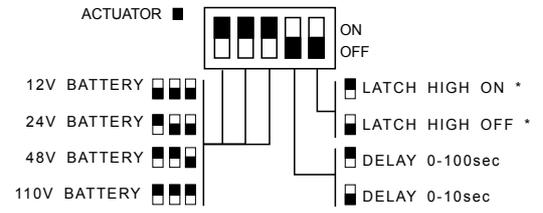
Application:

Avoiding deep discharging, or overcharging in UPS, stationary battery equipment and mobile battery equipment. Alarm function in case of faulty batteries or charges.

FUNCTION DIAGRAM



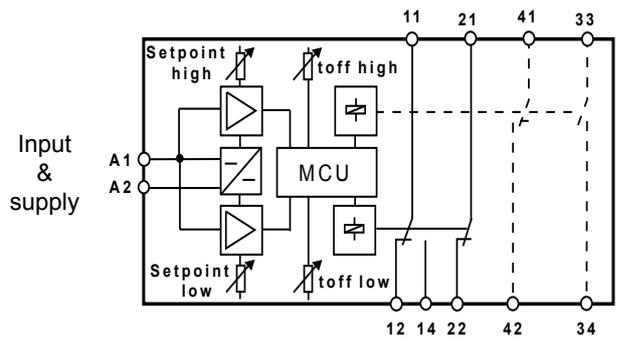
PROGRAMMABLE FEATURES



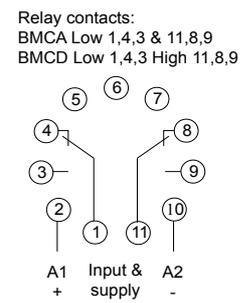
* LATCH ONLY ON TYPE BMCD

CONNECTION DIAGRAM

Rail mounting



Socket mounting



SPECIFICATIONS

INPUT

BMCA & BMCD	12 V, range int. adjustable Under voltage from 9 to 12 V Over voltage from 12 to 15 V Precision 12V ± 0.1 V
	24 V, range int. adjustable Under voltage from 18 to 24 V Over voltage from 24 to 30 V Precision 24V ± 0.2 V
	48 V, range int. adjustable Under voltage from 36 to 48 V Over voltage from 48 to 60 V Precision 48V ± 0.4 V
	110 V, range int. adjustable Under voltage from 83 to 110 V Over voltage from 110 to 137 V Precision 110V ± 0.9 V
Differential	Under voltage Approx. setpoint + 2.5 %
	Over voltage Approx. setpoint - 2.5 %

PERFORMANCE PARAMETERS

TIMING	
Time range accuracy	±5 %
ELECTRICAL	
Repeat accuracy	< 0.5 %
Temp. dependence	Typ ±0.02 % / °C

OUTPUT

Under voltage	Relay, 1 C/O and 1 N/C, AgNi
Over voltage	Relay, 1 N/O and 1 N/C, AgNi
Contact rating	6 A, 250 VAC, 1500 W
Mechanical life	30 Million operations

SUPPLY

	DC voltage, supply and input internal connected From 8 to 180 V
Power consumption	2,5 W

GENERAL

Temperature range	- 25 °C to + 55 °C	
Humidity	Up to 90 % RH non-condensing	
Dielectric test voltage	Coil to relay contacts	4000 VAC
	Pole to pole	2500 VAC
Weight	0.14 kg	



	International Standards
EMC directive 89/336:	EN50081 - Emission
	EN50082 - Immunity

ORDERING INFORMATION

EXAMPLE:

TYPE
Battery multi control relay under volt. BMCA
Battery multi control relay over & under volt. BMCD

Supply range
form 8 to 180V

ADJUSTMENT
Trimpot adj.

HOUSING
Rail mounting
Socket 11 pin

SIZE
35 mm.

CODE
Extend code
Code end

