

DC under voltage relay

FUS2

Version02 31.10.2007



fig.1

FEATURES

- under voltage sensing
- delayed signal of the output relay
- LED-indication for operation and alarm
- pot. free co contact
- compact design

1.0 SCOPE OF APPLICATION

The FUS2 is especially designed for monitoring of starting batteries undervoltage. The output relay does not respond on temporary voltage drops. AC voltage, superimposed on the battery DC voltage, e.g. residual ripple of a charging device, will be filtered out. Only the DC voltage is monitored.

2.0 METHOD OF OPERATION AND FUNCTION

The FUS2 has to be connected as shown in the connecting diagram (fig. 2).

After connection of the battery voltage the output relay of the FUS2 is energized. Thereby the measuring voltage must exceed the preset voltage of the switching point. The green LED for operation indication lights up and the contact between 11 and 12 is closed.

In case the DC voltage falls below the preset limit value, the red LED lights up. When the preset response delay time has elapsed, the output relay is deenergized, the contact between 11 and 10 is closed. If the voltage exceeds the preset value and hysteresis the output relay will be energized immediately and the red LED goes off.

3.0 CONNECTING DIAGRAM

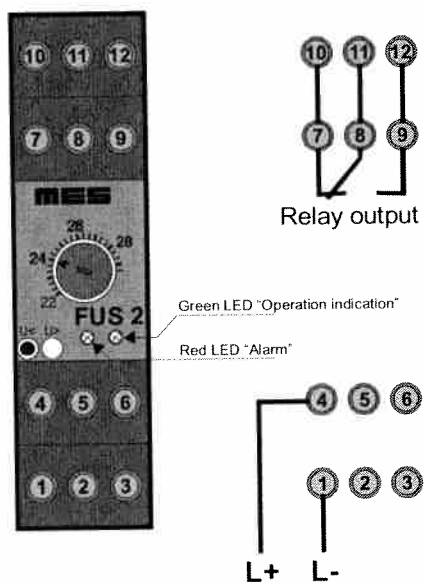


fig. 2

4.0 DIMENSIONS

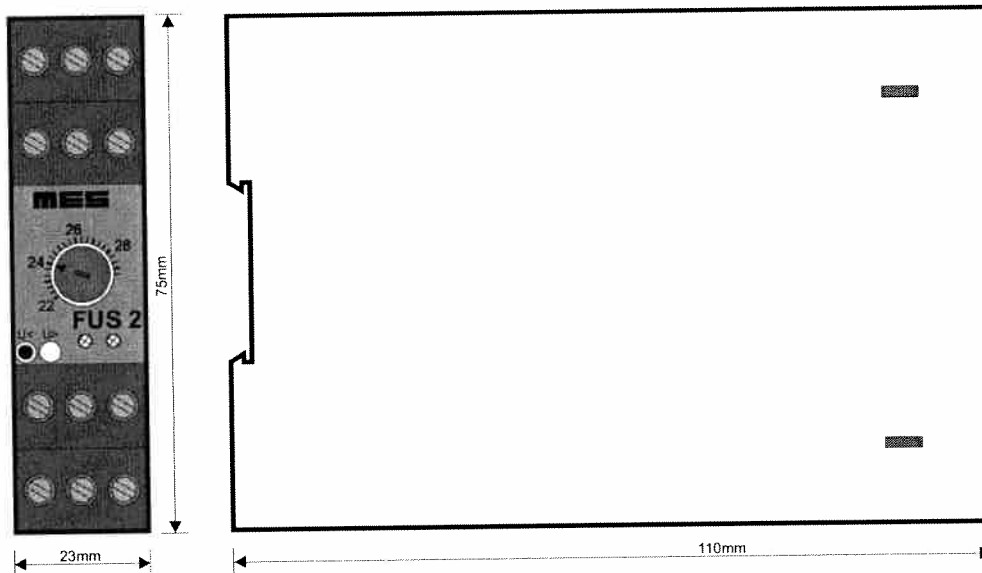


fig. 3

5.0 TECHNICAL DATA

| | | |
|----------------------|--|------------------------------------|
| Measuring voltage | 22 – 29 VDC, | U<-limit, factory preset on 24,0 V |
| Power consumption | Ca. 35 mA | |
| Hysteresis | factory preset 0,5 VDC | |
| Response delay | factory preset 30 sec. | |
| Relay output | 230 V AC/DC; 2 A | |
| Voltage drop | <2 s down to 5 V, | no deenergizing of output relay |
| Test voltage | 2,5 kV | |
| Ambient temperature | 0 ... +50 °C | |
| Casing | Makrolon 8020 grey / VDE 0100 / VBG4 | |
| Dimensions | W23 x H75 x D110 mm | |
| Mounting | standard clip rail according to DIN EN 50022 | |
| Degree of protection | IP 20 | |
| Weight | 120 g | |
| Mounting position | any | |
| Regulations | VDE 0160 / EN50178 VDE 0435 part 303 VDE 0110 IEC 255-6 | |

Subject to technical modifications!

This device is the replacement type of our previous type HUG 0b/02, MUB1-2and FUS1-DC.