

TEMPERATURE CONTROLLER

Switching Regulator



TEMPERATURE CONTROLLER

Dear customer, we are delighted that you have decided to buy our product. We believe it will serve you reliably for a long time and you will be fully satisfied with our service.

This switching regulator is designed to control the input power of the electrical heating devices such as heating socks, insoles and gloves.

The device is designed to be attached to the rear side of the instrument panel. The output power is controlled by a knob on the front side of the device. The left endstop with ON-OFF switch adjusts the minimum power – switch OFF and the right endstop means the maximum power. The yellow LED indicates the intense of heating. The LED flashes with period approx 1 second and the ratio between the light and the dark corresponds to the output power.

The switching topology achieves higher efficiency than common linear regulators and saves board battery.

PARAMETERS

Maximum input voltage: 16V=

Power adjustment range: 0 - 100 %

Maximum output power: 50W

Dimensions: 72 x 27 x 31 mm

(without knob)

INSTALLATION

The proper wiring of the heating regulator is shown in the figure 1. The minimum size of conductor is 0,5 mm². The regulator has an inbuild 5A fuse but it is strongly recommended to place another fuse as close as possible to the board battery to ensure safe operation. The battery we recommend to use a maintenance-free lead-acid accumulator with capacity at least 6Ah. The standard heating devices could be connected to the regulator in both ways, regardless of a polarity.

The unit could be attached to instrument board with two screws. A mounting diagram is shown in figure 2.

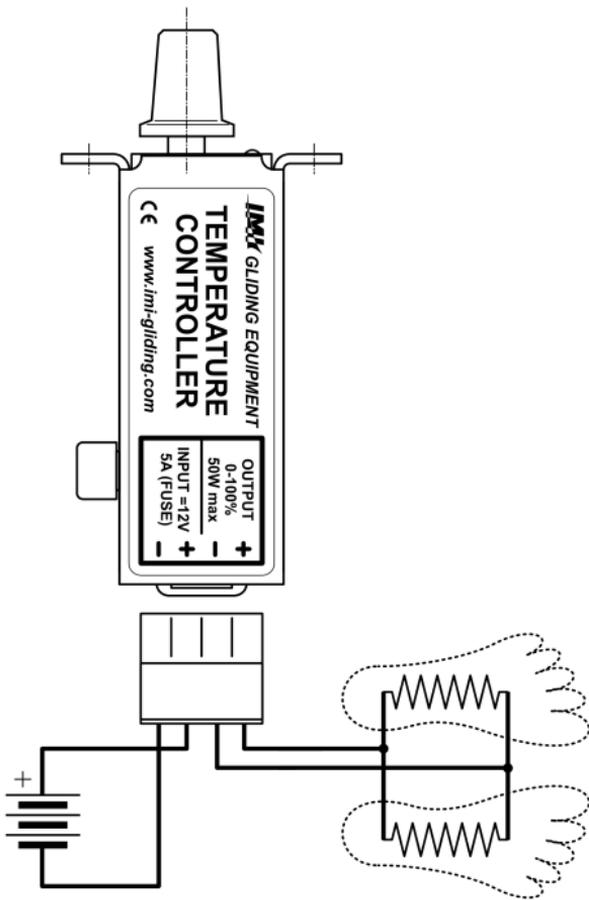


Figure 1: Wiring

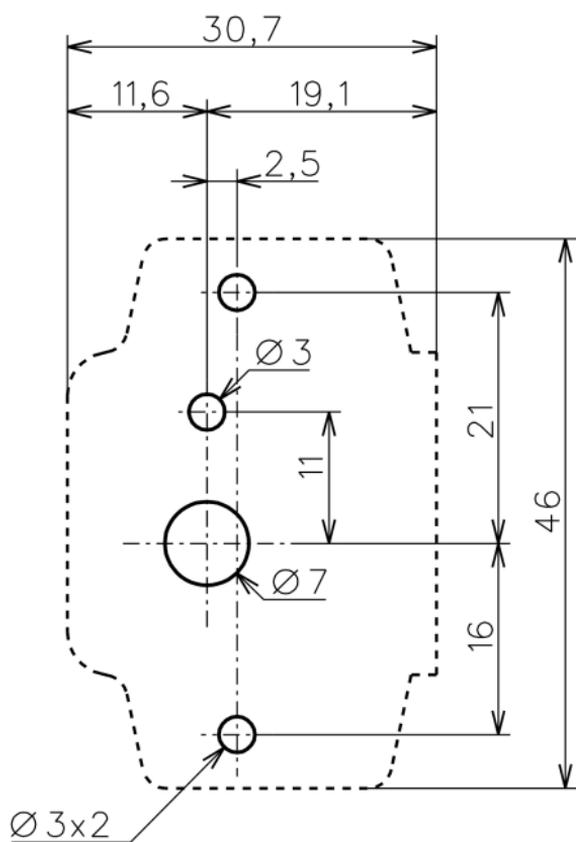


Figure 2: Mounting

CAUTION

To prevent the damage of the unit avoid short-circuit of the output wires! Do not expose the device to heat sources or temperatures above 40°C. Our company takes no responsibility for any damages due to misuse.

WARRANTY

The warranty is applicable within two years after purchase. The warranty voids if the cover sticker is broken or if any evidence of mechanical damage or overheating is found on the device.