Micro Invent MBC3

Electronic speed controller
for brushless motors

Linear course of the electromotor capacity control
Masking of a signal failure up to 0.5s
Slow turning off after a signal loss
Reduce of power of motor if the voltage drops below 3.2V
Turning off of the controller if the voltage drops below 3.0V
Acoustic indication of state of the controller

Data

Power supply voltage	*2.7 to 5.5 V (1 LiPoly cell)*
Permanent current	*3.0 A*
Electronic fuse	*3.3 A*
Operating frequency	*16 kHz*
Weight without wires	*0.18 g*
Weight with wires	*1.0 g (50 mm)*
Dimensions	*11 x 8 x 2 mm*
Operation temperature range	*0 to +40 °C*

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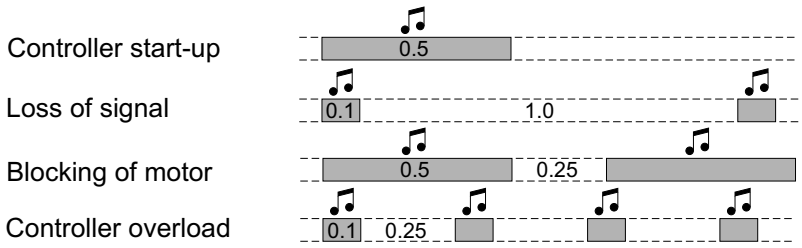
Operation of the controller

Before connecting the controller to the power supply cell please turn on the transmitter at a minimum position of the motor control lever. A minimum position of the control lever is signaled by a long audible beep. When the signal is finished, the controller is ready for operation.

The course of the motor capacity control (not the speed) is proportional to the offset of the motor control lever, which enables you to finely adjust the motor capacity within the entire capacity range.

If the current fuse is blown out in the case of controller overload, it is possible to restore the controller performance by setting the lever to a minimum position.

Controller state acoustic indication



Note : Time in seconds

Connecting the outputs