Micro Invent MUC1-T

Electronic speed controller with timer
for brushless and brushed motors

Build in programable timer
Buid in programable speed
Linear course of the electromotor capacity control
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	*1.0 A (1.3 A peak)*
Operating frequency brushless	*16 kHz*
Operating frequency brushed	*2 kHz*
Time adjustable (step 10 s)	*10 s to 600 s (default 60 s)*
Speed adjustable	*0 - full throttle (default 50 %)*
Weight	*0.16 g*
Weight with wires	*0.50 g (50 mm)*
Dimensions	*6.8 x 6.4 x 2.5 mm*
Operation temperature range	*0 to +40 °C*

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Operation of the controller

After connecting the controller to the power supply cell is the controller ready for operation, this is indicated by a long acoustic signal.
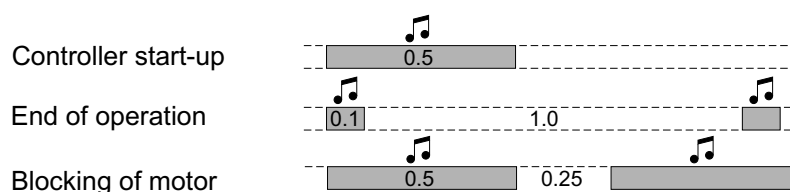
The motor shall run after time delay of 10s for preset time and with preset power. When the run of motor is finished, the indication of end of run shall be in progress.

Programing the time run and the power of motor.

The programing push-button must be connected to relevant connector. After connecting the controller to the power supply cell the required time run shall be increased by 10s a every push of a button. The motor shall start running with time delay of 10s after the last push of the button.

While motor is running, we can change the power of motor by pushing button to the required value. Upon the termination of motor run we must disconnect the power supply cell and programable button from controller.

Controller state acoustic indication

Controller start-up	♪ 0.5
End of operation	♪ 0.1 — 1.0 — ♪
Blocking of motor	♪ 0.5 — 0.25 — ♪

Note : Time in seconds

Connecting the outputs

(red) battery plus

Programable push-button

(black) battery minus

output A
output B
output C

Motor version	output A	B	C
Brushless	x	x	x
Brushed (unidir.)		x	x
Brushed (bidir.)	x	x	