

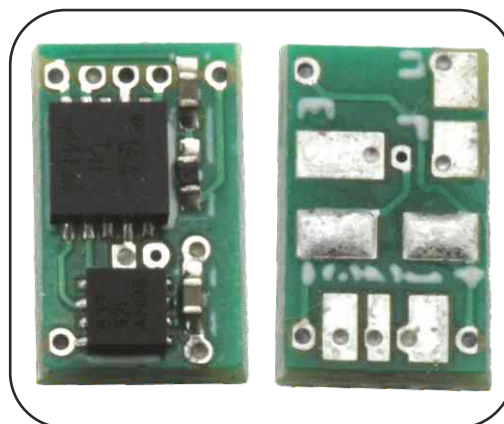
INSTRUCTIONS

SPEED CONTROLLER ERMIKRO

Order No. 19500

Micro speed controller with outputs for brake lights and reverse lights, as well as standby function

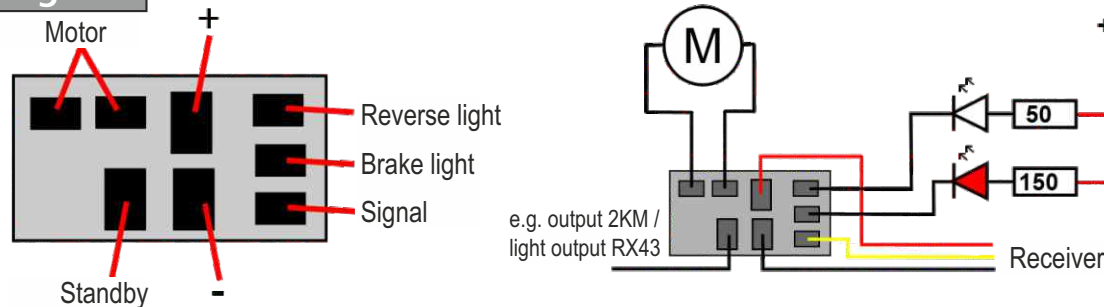
Technical data	ERMIKRO
Operating voltage in V	2.7 - 5
Motor current duration in mA	800
Motor current pulse in mA	1200
Dimensions	8.45 x 5.5 mm
Weight in g	0.1
Output for brake light	30 mA max
Output for reverse light	30 mA max
Frequency	300 Hz
Standby input	The controller is switched off if this is connected to minus.



Measuring only 8.45 x 5.5 mm, this speed controller can control motors with up to 800 mA in two directions (forward/reverse). This makes it ideal for use in small and very small models. The ERMIKRO has outputs that control reversing lights and brake lights. If the accelerator is suddenly released, the brake light illuminates briefly. If the motor reverses, the reversing lights illuminate. If the standby input is activated and connected with the minus, the controller switches to standby.

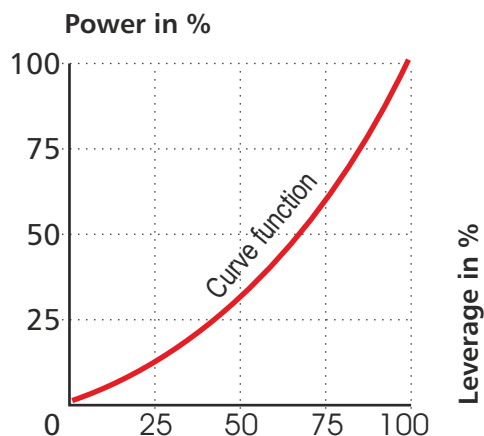
For safety reasons, the throttle stick must be in neutral at the time of standby activation to prevent sudden restart. This function is very well suited for securing a construction vehicle during transport on a low-loader against unintentional movement or rolling away. In the case of small functional models, special functions can also be selectively switched on and off. A digger, for example, can be switched between both the digger and driving functions. Our two-channel switch (2KM) or a suitably configured P output of a delta receiver (e.g. RX43, RX47, RX45) is suitable for control.

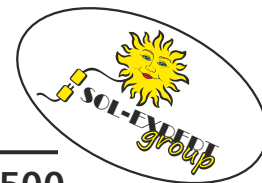
Block diagram



Characteristic curve

The programmed characteristic curve permits a gentle starting of the vehicle as well as exact manoeuvring.





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Zero point detection - Switching on the transmitter and the receiver unit

The transmitter is switched on first, followed by the receiver. The sticks should not be moved until the LEDs have gone out (approx. 2 sec.). The exact zero point is now defined.

Safety features

If the signals from the transmitter are incorrect or absent (e.g. transmitter failure), the motor is turned off in order to protect the model. This is indicated by the activation of the brake and reversing lights. If the ERMIKRO receives usable transmitter signals, the motor is activated and the ERMIKRO switches to normal operation. If the operating voltage drops below 2.7V, the motor comes to a standstill and the brake light lights up. In this case the model must be switched off and the battery charged to prevent any damage to it.

Due to its dimensions, the SMD soldering tool is recommended for cabling and installation and soldering knowledge is required.

SAFETY ADVICE:

Before ERMIKRO is put into operation for the first time, the following check should be carried out to avoid damaging the component:

- Check the polarity of the operating voltage
- Check motor outputs for short circuit

In the event of faults or malfunctions with ERMIKRO, please read our tips on suggested solutions at: www.1zu87modellbau.de, here you will also find advice on troubleshooting.