Cod. 90030211

## **ESC micro Switch MGN**

### **Compact and light magnetic electronic switch**

# USAGE MANUAL V1.0

**ALEUINGS**<sup>®</sup> di Alessandro Torri v. del Lavoro, 41 20084 Lacchiarella MI ITALY

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Dear customer,

thank you for purchasing an ESC micro Switch Alewings.

It is a very compact and light magnetic electronic switch.

It is ideal for turning on and off receiver and servos where you have not too much space such as into particularly narrow fuselages, on cars or boats; moreover the on/off by magnetic key doesn't require any hole into fuselage or receiver box.

- When you connect the battery, the device turns on

- Before connecting the ESC micro Switch MGN to any other device, make sure that the voltage of the supplying batteries is lower than the maximum supply voltage of the device itself

- Don't connect battery with inverted polarity; inversion of polarity damages the device

- Don't connect the ESC micro Switch MGN output to the device you want to supply with inverted polarity; Inversion of polarity damages both devices

- Don't cause short circuits at the output of the ESC micro Switch MNG; short circuits damage the device

- Durning on and off system of the ESC micro Switch is based on electronic circuits with integrated Hall-effect sensors: they may be affected by external magnetic fields such as those generated by electric motors or high current carrying cables; so it is necessary to mount the ESC micro Switch at least 5 cm from these possible sources.

If you don't use the device for more than one week, disconnect the battery.

### CONNECTIONS

FIXING:

Place the ESC micro Switch into the fuselage or the receiver box and fix it with some adhesive Velcro; you don't have to make any hole near the magnetic sensor. Make sure you can bring the magnetic key at least 1 cm near the sensor. It is always suggested to realize installations assuring the insulating of the device from vibrations.

CONNECTIONS ESC micro SWITCH BATTERY: Picture 1 ATTENTION: THE DEVICE TURNS ON (for turning off keep the magnetic key close to the sensor for at least two seconds)

If your battery has a different connector, the following adaptors are available:

 Deans M - UNI
 item 90050357

 MPX M - UNI
 item 90050358

 XT60 M- UNI
 item 90050359

CONNECTIONS ESC micro Switch MGN DEVICE TO BE SUPPLIED: Picture 2

ATTENTION: before connecting the ESC micro Switch MGN to any device, check its input maximum voltage and make sure that the battery voltage is lower. THE ESC micro Switch MGN DOESN'T STABILIZE THE OUTPUT VOLTAGE.

Connect the UNI output cable to the device you want to supply.



#### USAGE

After carrying out connections as indicated into the corresponding paragraph, the device is ready.

Use is really simple: when you connect the battery, the device turns automatically on and supplies the receiver; keep the magnetic key close to the sensor for at least two seconds in order to turn the device off and on.

NOTE: every time you bring the key close to the sensor, the light indicator starts to flash quickly.

# ATTENTION: the ESC micro Switch MGN in off state has a current consumption of about 300 mA in 30 days ATTENTION: the light indicator doesn't show the battery status of charge, but the activation of the electronic switch.

Place the magnetic key close to the red circle as indicated by the red arrow for turning the device on/off.



### WARNING

#### This is not a toy.

Pay close attention to the following points, as the non observance of them can destroy the product, nullify your warranty and lead to property damages or personal severe injuries!

- Never leave the product unattended while it is switched on, in use or connected with a power supply. If a defect occurs, it could set fire to the product or to the surroundings.

- Avoid incorrect connections or connections with reversed polarity.

- All wires and connections have to be well insulated. Shortcircuits might destroy the product.

- Never allow this product or other electronic components to come into contact with water, oil, fuels or other conductor liquids, as these could contain minerals, which are harmful for electronic circuits. If this happens, stop the use of your product immediately and let it dry carefully.

- Always wire up all the parts of the equipment carefully. If any of the connections loosens, due to vibrations, you might damage your device.

- Never cut off or modify the original plugs

- Never change the polarity of the receiver connectors
- Do not open the product and never solder on the PCB

### SPECIFICATIONS

Operating voltage:	from 5V to 9
Allowed battery:	4-5cells Nixx, 2s Li.Poli, 2s LiFe
Output voltage:	NOT STABILIZED
Dropout voltage regulator:	35mV@ 6A
Max load:	6A continuous (15A peak)
Current drain Switch ON:	6,5mA
Current drain Switch OFF:	300mA every 1 months
Dimensions:	26x12x4mm
Weight:	6g including cables
Working temperature:	-10 up to +60 °C

These specifications may be changed without advance notice.

#### WASTE DISPOSAL



At the end of its life cycle this product is subject to special waste disposal and it cannot be disposed with urban waste