RC Electronic by EMCOTEC

DPSI systems ❍ LiPo batteries ❍ RC electronics ❍ www.rc-electronic.com

MPS - Switch

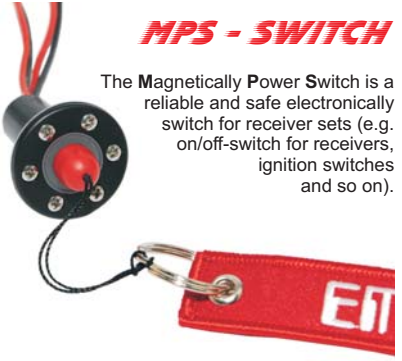
High grade electronically switch in gas-cap design

- Electronically power switch for receiver sets
- Remarkable gas-cap sealing optics
- Nicely shaped plastic housing including bright illumination for power-on control
- Switches reliable and safely using a magnet 5 amps continuous current and up to 12.6 volts
- Made in Germany by EMCOTEC

EMCOTEC embedded controller technologies

Waldstr. 21
D - 86517 Wehringen
Germany

☎ +49 (8234) 95989 - 50
+49 (8234) 95989 - 59
info@rc-electronic.com



MPS - SWITCH

The **M**agnetically **P**ower **S**witch is a reliable and safe electronically switch for receiver sets (e.g. on/off-switch for receivers, ignition switches and so on).

Thanks to highly integrated parts and highest mounting density the complete electronics is accommodated in a small housing.

The switch can easily handle 5 amps continuous current and allows for peak currents of up to 20 amps. Supply voltage ranges from 6 volts up to 12.6 volts; even 3-cell LiPo batteries can be connected.

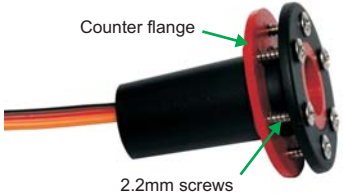
The MPS “gas-cap” switch is extremely safe. Power on is conducted using a high grade reed-contact which is sealed with a protective gas. The blue illuminated inner ring of the “gas-cap” closure indicates the power on state.

Mounting:
The MPS switch is shaped like a gas-cap. For mounting drill a round hole of 15.2 mm (e.g. using a hole-cutter).

Attention:
The installation depth of the switch is approx. 35mm! Therefore, the fuselage must be wide enough at this position.

Guide the funnel-shaped switch actuator into that hole and mark 6 drill holes (circular diameter of 21mm) for mounting the screws. Drill 6 holes using a 2.4mm (alternatively 1.6mm) drill bit. Push the counter flange over the connection cable from the fuselage's inside and insert the stainless steel screws.

If the fuselage is sufficiently stable, the switch actuator may be directly mounted into the fuselage (without counter flange). Drill the holes using a 1.6mm drill bit in order to remain enough material.



Operating:
Switching occurs using a magnet (at the key ring). It nicely form fits into the funnel shaped opening of the MPS. The magnet holds exclusively through it's magnetically force inside the opening and does not fall out. As long as the magnet is inserted in the funnel shaped opening the MPS switch is turned off. Only if the magnet is removed from the MPS, the internal electronically switch turns voltage on. This is indicated by the blue illuminated ring inside the MPS housing.

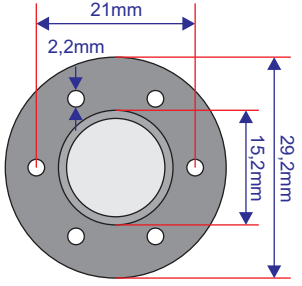
Caution:
If no consumer is connected to the MPS, the MPS switch might not be activated under certain circumstances if the magnet is removed very slowly. This is not considered a malfunction! As soon as a consumer (e.g. receiver, ignition) is connected to the MPS, it'll switch perfectly.

A powered MPS-switch can only be turned off by the magnet. If the magnet is lost, turning off is only possible by removing the battery.

Solder a cable parallel to the regular connection cable of the battery for recharging. Recharge LiPo batteries directly via their balancer connector alternatively. Of course, the battery may be removed from the MPS for recharge.

Contents of delivery:

Dimensions:



Technical data of the MPS	
Current Sources	5- up to 8-cell NiCd / NiMH 2- up to 3-cell LiIon-, LiPo-, LiFePO4-batteries
Operating voltage range	4.3V 12.6V
Nominal input voltage	6.0V 12.6V
Quiescent current (turned off)	approx. 25µA
Quiescent current (turned on)	approx. 10mA
Max. Continuous current	5 Ampère
Max. Peak current	25 Ampère
CE approvals	According to 2004/108/EC
Weight	approx. 14g incl. mounting material
Warranty	24 month

RC Electronic by EMCOTEC:
RC Modeling's first grade electronic technology
www.shop.rc-electronic.com