

SOLID3

Servo-Extender with opto coupler for 4-7 cells, regulated Current supply for the receiver. 12 Inputs, 18 Outputs (channel 1-6 doubled, 7-12 single)



Suitable models:

This High-Quality electronics permits the link of more servos and improves the conditions Of the receiver substantially in your model. Is is NOT ALLOWED to attach NO MORE Servos to the receiver. The SOLID3 is recommended for :

- Middle to large power planes
- Big gliders
- Models with turbine propulsion
- Valuable Scale models

Useable receiver and servos:

- With GRAUPNER or FUTABA plug system
- Receiver up to 12 channels
- With fewer than 12 channels 2 inputs can be switched parallel over a Y-cable. If the inputs Nr. 4 and 5 are switched parallel, for example on the outputs Nr. 4 and 5 there could be attached 4 servos.

Breakdown insensitive also with long cables:

- 12 opto coupler separate the receiver from the servos.
- No load of receiver outputs by internal drivers.
- Parallel outputs are separated internally by Schmitt-Trigger.
- Length and type of the servo cables (flat or twisted) has no influence on the receiver.

Higher transmission range:

Long servo cables impair the antenna cable by HF interference. This effect is uncoupled over opto couplers and HF filters, if the antenna cable is not led in direct proximity parallel to a servo cable . **Tests resulted in up to 100% more range of your remote control.**

Stabilized voltage supply for the receiver:

Voltages over 5V will be stabilized by a Low Dropout voltage regulator on 5V for the receiver. At voltages under 5V there is the same voltage to the receiver. Short voltage drops are bridged by a buffer capacity. A HF filter prevents disturbances on voltage supply to the receiver.

Connecting with battery switch:

The SOLID3 can be used with a battery switch. Particularly the SOLID2 of MICROSENS is recommended. In this case the current supply could be made with 2 free outlets on the servo side. Other battery switches can be attached in the same way or also over the MPX power connector. Pay attention to the correct polarity! In the case of false polarity you'll loose warranty. You can use the MPX power socket after cutting the ACCU frame on the cover.

Without battery switch:

If no battery switch is used, the accu is attached over a switch at the MPX power socket. Also in this case you should pay attention to the correct polarity. You could use the MPX power socket after cutting the ACCU frame.

Recommended assembly :

Vibration-insensitive by most modern SMD technique. However nevertheless an attachment with a fastening tape or foam rubber is recommended, thus the plug connectors are as vibration-free as possible.

Technical Data :

Battery voltage	4 - 7 cells NiCd / NiMH, only if the servos are suitable for the appropriate voltage
Receiver Supply	5V ±1% / 50mA
Admissible total value of current	ca. 20A duration / 50A peek
Current consumption	ca. 10mA
Dimension (L x W x H)	57 x 60 x 26 mm
Weight	ca. 68 g

Another products of microsens ®:

GLOW2, GLOW3 GLOW4, GLOW4B, GLOW5, GLOW7, GLOW9, SOLID0, SOLID1, SOLID2, SOLID3, AKKU1-7, ZUBI1-5

