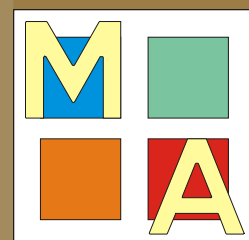


User manual
Servo controller
Analog 2-way

MINIATUURA



This manual is for the analog control of a servo, for example a two-way junction servo or a parking servo from Streetsystem. The module is based on the S4 Tiny from Moba Claus. With this module you can easily control servos and create movement on your layout.

The Streetsystem junction servo is suitable for all car systems with both wire and magnetic wire.

Note the module is only suitable for small, light servos.

Delivery

1x Servo control module

Operation

The servo is a part that originally comes from aircraft model making.

You can easily create movements on the layout. The servo consists of a motor with a transmission that controls an arm that can usually be adjusted by 180 degrees.

The movement is fed back to the motor, which means that the position can be set very accurately. So that's exactly what we can use when operating splits and switches. A servo has 3 connection wires: Min (GND), +5 Volt and the control signal. The most common colors are: black, red and white or brown, red and orange.

SET UP

The Servo control module provides the control signal and the power supply (5Volt) for the servo. The control signal is a pulse width signal in which the width of the pulse indicates the adjustment angle. By means of two knobs on the module, the position of positions A and B can be adjusted separately. In position A, pos. A knob position A can be set. Ditto for position B, if the servo is in position B, rotary knob pos. B active to set position B.

Operation

The module has two inputs for operation, A and B.

There are two options for operation:

1. Momentary contacts: By connecting push buttons or momentary contacts (reed contact, Hall sensor) to inputs A and B, the servo will take up position A or position B.

The contacts must be switched to GND to activate the desired position (middle connection of the green terminals).

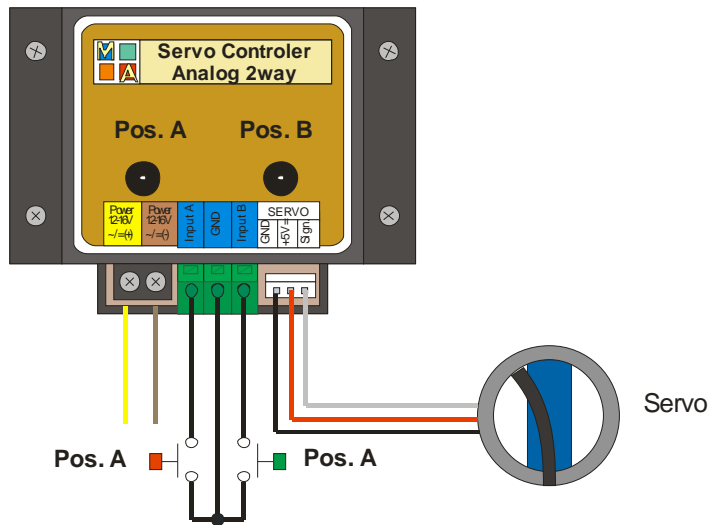
2. Continuous contact: By permanently connecting input A to GND, the servo can be operated with a switch that is connected to input B. When the switch is open, the servo is in position A, the switch is closed, the servo goes to position B. If you choose a rocker switch, you can tell from the position of the rocker arm in which position the servo is, this is useful in the case of divisions in the road where you cannot see how the split is.

Naturally, inputs A and B can also be controlled by a switch decoder.

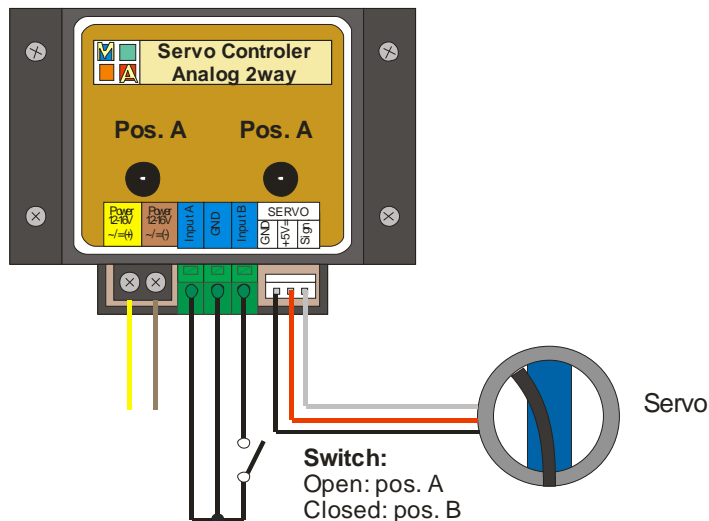
The servo can therefore also be used in digital systems. Make sure that the mass (GND) of both systems are linked.

Connections

1. Operation with 2 push buttons:



2. Operation with a rocker switch:



Supply:

The module can be powered with 12 - 16V, this may be AC or DC voltage.

NOTE: servos can require a lot of current, preferably you take a power supply that can provide ample current, preferably 2A or more.

Input A / B:

Input for the switch contact / push button.

GND: ground connection for the switch contact / push button.

Tips: To view the position of a built-in servo junction, you can use the magnetic field detector (see our web shop), which makes the magnetic tape visible even if it is in an already finished road surface!

By using our memory relays you can report the junction position or, for example, operate the direction indicators of DC-Car vehicles by means of the Function module.

We wish you a lot of driving pleasure with this Servo control module.

More information and updates: www.dccar.nl

or

<http://www.wiki.dc-car.de/>

Where you also find an English version.



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This product is of course not suitable for children!

Take care about your environment!

You can return defective or disused products to the environmental station of your municipality.

