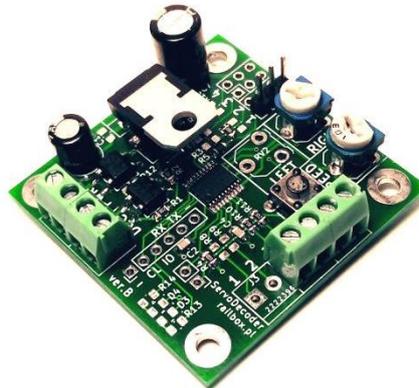




Semi Turntable Decoder



Introduction

This Accessory Decoder is designed to control the servomotor for moving Semi Turntable (3 positions) with ability to adjust its position and speed.

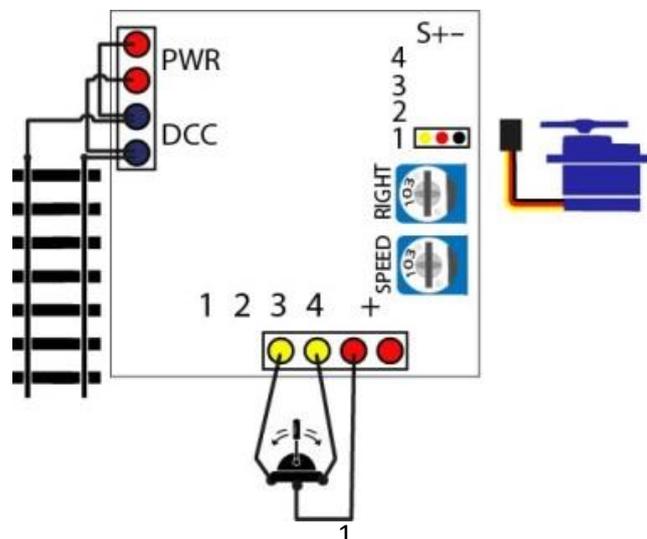
Features:

- **1 servomotor output.**
- **2 manual inputs.** The external switch button could be connected to it to control a servo position manually
- **2 potentiometers.** Allows configuring of the left, right and middle positions on the servomotor and changing its speed.
- **DCC input.** Allows configuring of the internal CV values and controlling decoder from the command station.
- **Power input.** Allows decreasing a current supply via DCC input from the command station. (Useful for the bigger scale Model Railroad). Should be connected to DCC inputs if the external power is not used.

Electrical specification

- **PWR Input: AC/DC 7-18V, min 1A**
- **DCC Input: AC/DC 0-20V**
- **Servo output: 5V, max 1A**

Connection





Configuring module DCC address

To configure module DCC address User should repeat the following steps:

- Press and hold the programming button
- Send from the command station accessory command with required address three times: on/off/on. After that module should start performing the base address action.
- Release the programming button.

List of available actions:

- Base address: left position on/off
- Base address +1: right position on/off

Manual configuration of servomotor (left/middle/right positions)

Steps to configure servomotor positions:

- To set the left position of the Turntable hold the switch to the left (to № 3) turn the “RIGHT” potentiometer to required position
- To set the right position of the Turntable hold the switch to the right (to № 4) turn the “RIGHT” potentiometer to required position
- To set the middle position of the Turntable do not hold any control button and turn the “RIGHT” potentiometer to required position

Note: To save all changes into microcontroller memory you need to wait at least 2sec before the module could be powered off.

Programming

CV can be updated using Paged Mode, Direct Mode or on the main track (PoM).

Main configuration table:

| CV | Value | Default value | Description |
|----|----------|---------------|--|
| 33 | 0..255 | 100 | Speed (100 – full turn 2s, 50 – full turn – 1s) |
| 37 | 128..255 | 255 | Left position |
| 41 | 0..127 | 0 | Right position |
| 49 | 64..191 | 127 | Middle position |