



## 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.

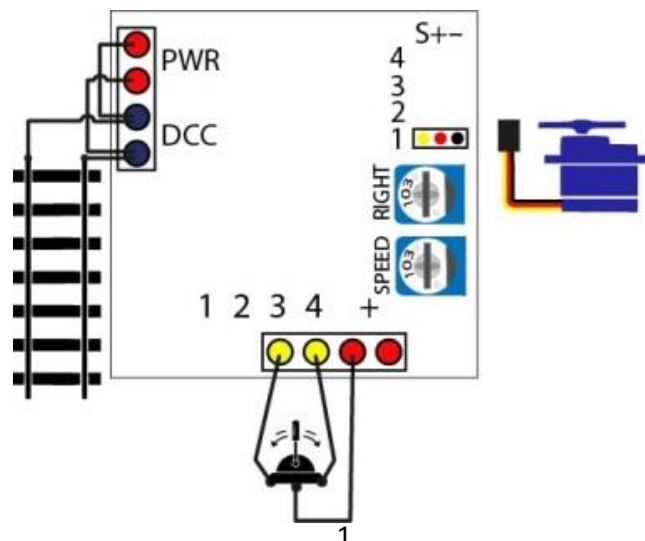
#### Features:

- **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