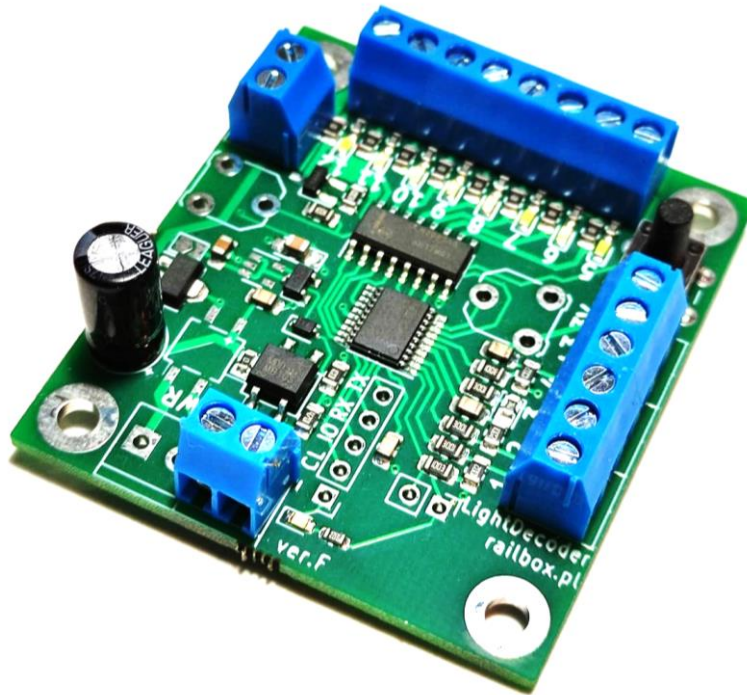


MTB Decoder



Introduction

This Accessory Decoder is designed for controlling MTB turnout motors for DCC systems.

Features:

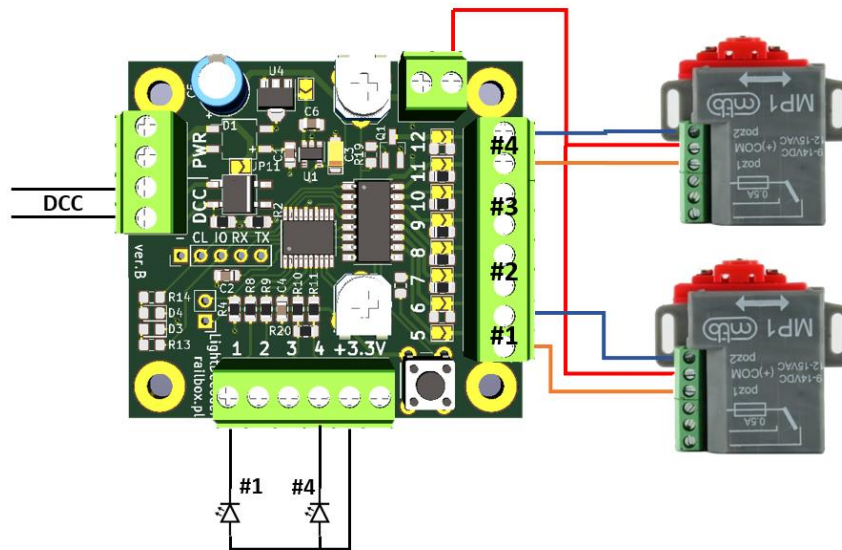
- Up to 4 MTB motors.
- Status LEDs (At position or moving).
- Power supply - directly from the DCC bus.
- Works as an accessory decoder (turnouts)
- Safe MTB turnout switching (Turnout cannot stuck in the middle position).
- Simple programming - the decoder "learns" the base address.
- Dimensions approx. 50x50mm

Electrical specification

- **DCC Input: AC/DC 0-20V**
- **Max output current: 0.5A**



Connection



DCC signals configuration

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

- Press and hold the programming button
- Send from the command station the accessory command with required address three times: on/off/on. After that module should start performing the motion of the MTB motor #1.
- Release the programming button.

List of available actions using Manipulator (DCC Accessory Mode):

- Base address(off): MTB #1 Pos 0,
- Base address(on): MTB #1 Pos 1,
- Base address+1(off): MTB #2 Pos 0,
- Base address+1(on): MTB #2 Pos 1,
- Base address+2(off): MTB #3 Pos 0,
- Base address+2(on): MTB #3 Pos 1,
- Base address+3(off): MTB #4 Pos 0,
- Base address+3(on): MTB #4 Pos 1,

Main Configuring table

CV	Value	Default value	Description
41	0,10	0	Swap Status LED of MTB motor #1. 0 – not swapped. 10 – swapped. In swapped Mode the LED will be of in the opposite motor position.
42	0,10	0	Same as 41 but for MTB motor #2
43	0,10	0	Same as 41 but for MTB motor #3
44	0,10	0	Same as 41 but for MTB motor #4
69	0..255	50	Half of blink period for Status LEDs(* 10 ms). Default is 1s period.
71	0.255	250	MTB Turnout moving time (* 10 ms). Keep value bigger than real moving time for proper operation. Default is 2.5s