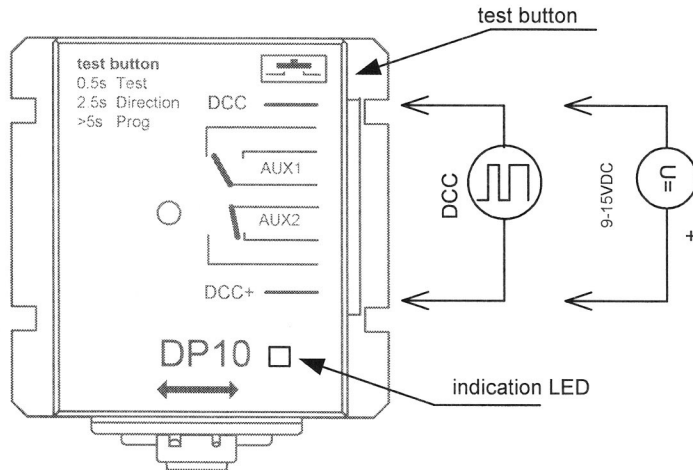


## Function and setting of DP10 / DP4 switches

Switch DP4/DP10 are equipped with DCC interface receiving command from master station and power for motion. They have two independent auxiliary switches AUX1, AUX2. When the DCC signal is turned on, the LED flash to indicate correct function. first positioning occurs before the switches are completely synchronized is done by a full turn. It will be improved in the serial production, this are demo samples.

DP10/ DP4 connections in the picture below.



For the purposes of switch function testing, a DC power supply of 9-16V, with marked polarity, can also be used. Only for functional test, by buton.

### LED indicator function:

#### 1 short flash

- when turning on the power or DCC signal (verification that DP it is alive)
- reception of the DCC command for switching position (or the versatile DCC command RESET)
- during pressing the button for >2sec, signaling the interval for polarity change

fast flashing (when buton pressed >5sec) – configuration mode

### button function:

*short press (0.1- 1 sec)* run test, the switch changes position. This also works with DC power

*medium time press (max 2 sec)* - change of command polarity. the switch will respond to DCC commands in the opposite direction. The new polarity is immediately permanently stored in memory.

*long time press >5 sec*- learning new DCC command address, reset to original adress. The LED will flash and the converter will set the default value of its starting address to the value ADR=9. As soon as it receives the first accessory decoder command via DCC (sent to any switch), it store the address of this command and accept it as its permanent one. During learning mode , it only responds to accessory/turnout DCC commands, not DCC commands for loco decoders. After saving the address, the LED stops flashing and the address learning mode is finished.

### Addressing of inital addresses:

RocoMouse, Roco Z21 etc : addr = 9

LENZ, DigiKeys, Digitrax : addr= 5