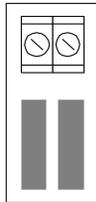


Information LA010 Motor Output

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Motor output LA010

The motor output LA010 is used to connect bi-polar motor drives for turnouts to accessory decoders LS100 and LS110.

The outputs of an LS100/LS110 have three connections which are intended for snap action or two motor drives. Many switch machines (such as the Tortoise and LGB brands) now have a single DC motor that only requires two connections. The LA010 provides an interface from the LS100/110 to this style of switch machine.

On one end of the motor output adapter are 3 pins for connecting to the LA100 or LS110 accessory decoder. The pins are spaced to fit in the existing screw terminals on the accessory decoder. This makes installation very simple.

On the other end you find 2 screw terminals to connect the wires that go to the turnout motor drive.

The maximum load of LA010 is 0.75 A in continuous use; the brief peak load is 3.0 A (maximum 1 sec.).

In the following wiring schematics, the turnout motor drive is shown as a motor symbol. We recommend that the output pulse of the LS100/LS110 be set to a suitable pulse duration (see the accessory decoder manual for instructions).

The motor drive you use may have built-in motor power disconnects at each end of movement. You can leave these as they are.

This manual assumes that you are already familiar with installation and operation of accessory decoders LS100 or LS110.

Connecting motor output LA010 to accessory decoder LS110

In Figure 1 you see the connection of LA010 to accessory decoder LS110. Simply screw the 3 connectors of the LA010 adapter into the LS100/LS110.

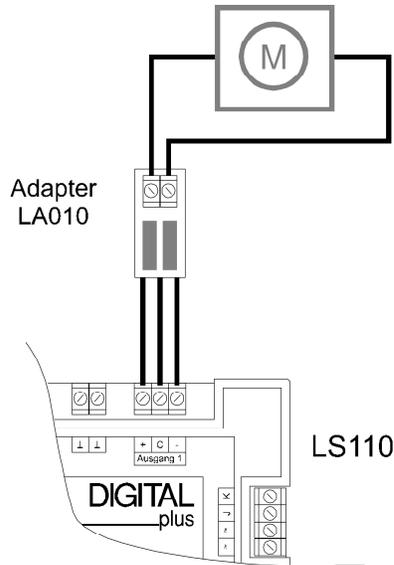


Figure 1: Connecting motor output LA010 to LS110

Now connect the motor drive to the 2 terminal screws on the LA010. Which wire you connect to which terminal determines if the turnout goes to "turn" or "straight" when you activate the + output. If you for instance want the turnout to go to "turn" when activating the + output, but it instead goes to "straight", then simply reverse the leads at the 2 screw terminals.

Connecting motor output LA010 to accessory decoder LS100

Available contacts that show the end-position of the motor drive, can be used to provide feedback of the turnout position via accessory decoder LS100 to command station LZ100.

In illustration 2 you can see how to connect LA010 to accessory decoder LS100. In this setup, an available contact in the motor drive is used to provide feedback of the turnout position. The connection of the motor drive is otherwise identical to an installation with LS110.

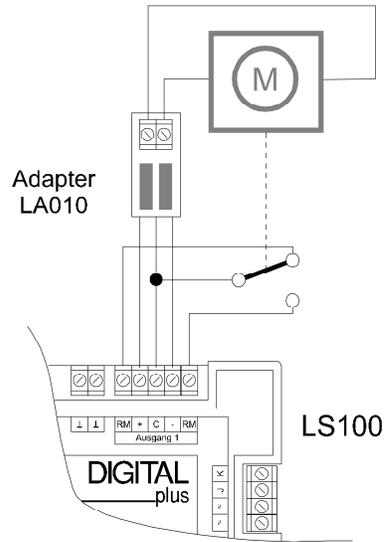


Illustration 2: Connecting motor output LA010 to LS100



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