LDT 210313 4-Fold Switch Decoder Instruction Manual

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LDT 210313 4-Fold Switch Decoder

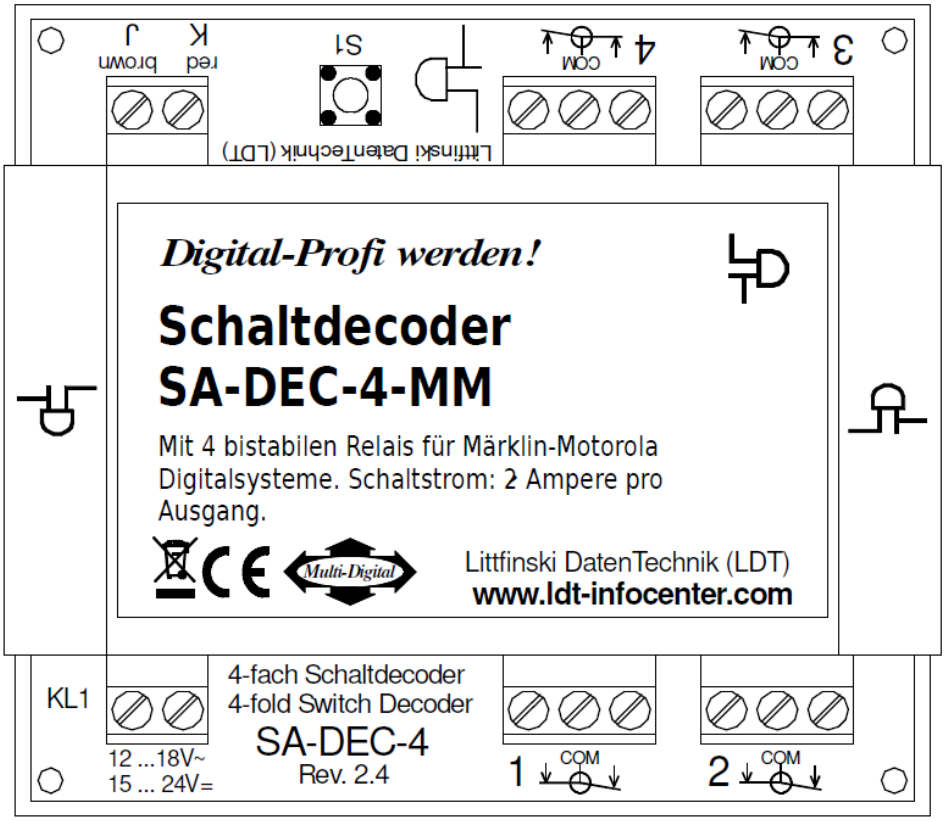
Introduction/Safety instruction

You have purchased the 4-fold switch decoder SA-DEC-4 for your model railway as a finished module in a case. The SA-DEC-4 is a high-quality product that is supplied within the Digital-Professional-Series of Littfinski DatenTechnik (LDT). We wish you having a good time using this product. The switch decoder SA-DEC-4 of the Digital-Professional- Series can be easily installed and used on your digital railway. The decoder SA-DEC-4 is suitable for Märklin-Digital~ respectively for Märklin-Motorola digital format. The decoder SA-DEC-4 is multi-digital and can be installed on the Intellibox without any problems.

The finished module comes with 24 month's warranty.

- Please read the following instructions carefully. The warranty will expire due to damages caused by disregarding the operating instructions. LDT will also be not liable for any consequential damages caused by improper use or installation.

Connecting the decoder to your digital model railway layout



- **Attention:** Before starting the installation switch off the drive voltage by pushing the stop button from the command station or disconnecting the main supply.
- Switch on the power supply of your model railway.
- Depress the programming key S1.
- The relay on output 1 will switch now automatically every 1.5 seconds. This indicates that the decoder is in the programming mode.
- Depress now one push button assigned to the decoder. For programming the decoder address you can also release a turnout switch signal via a personal computer

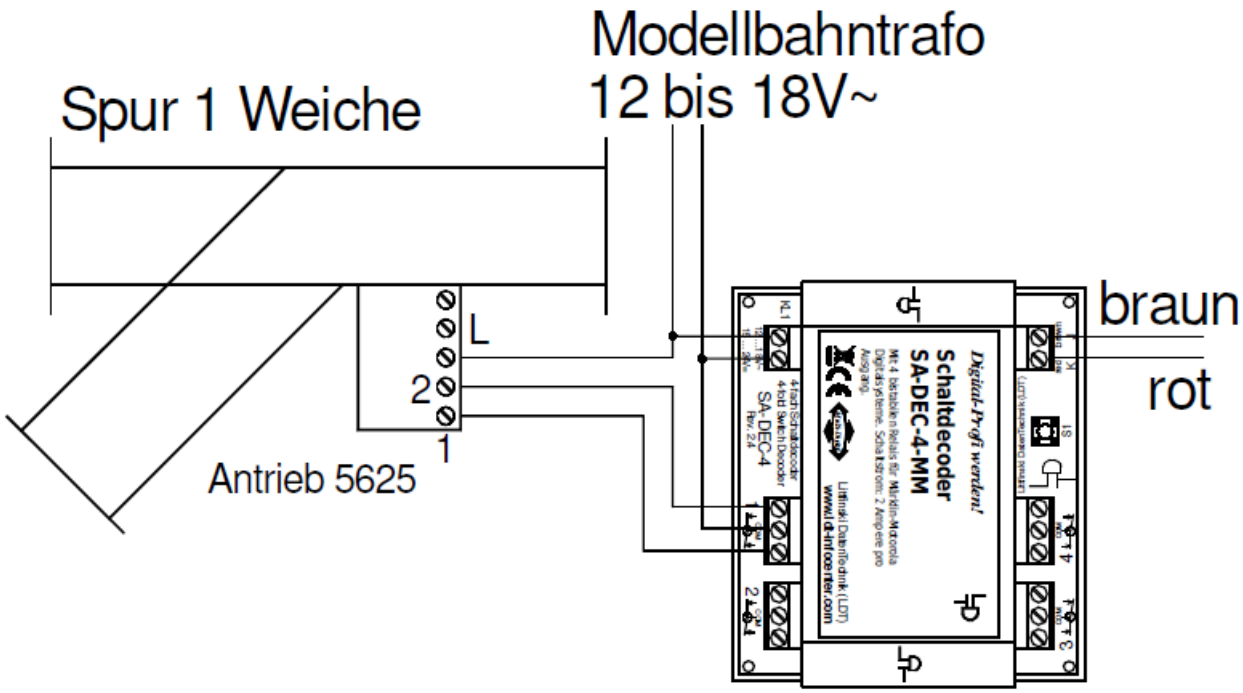
Remarks: The decoder addresses for magnet accessories are combined in groups of four. The address 1 to 4 build the first group. The address 5 to 8 build the second group etc. Each SA-DEC-4 decoder can be assigned to any of these groups. Which of the 4 turnouts of a group will be activated for the addressing does not matter.

- If the decoder has recognized the assignment correctly the relay will move a little faster. Afterward, the movement slows down to the initial 1.5 seconds interval again. In case the decoder will not recognize the address it could be that the two digital information connections (clamp 2) are wrong connected. For testing this, switch off the power supply, exchange the connection on KL2 and start addressing again.
- Leave the programming mode by depressing the programming key S1 again. The decoder address is now permanently stored but can be changed at any time by repeating the programming as described above.
- If you depress the first key of the programmed group of keys or you send a switch signal for this turnout from a PC the addressed bistable relay should now switch the connected consumer on or off.

Please attend to the following

- All 4 outputs can switch consumers with up to 2 Ampere.

Decoder application
Besides the switching of illumination and motors, there is an excellent application for the decoder SA-DEC-4 of digital switching the Märklin gauge 1 drives (e.g. 5625). As an advantage large current consuming drives will not unnecessarily overload the expensive digital power supply.



The following draft shows the wiring
Feed the SA-DEC-4 via KL1 with AC from the model railway transformer. Further, connect one cable of the transformer with clamp ‘L’ on the turnout drive. Connect the second cable of the transformer with the clamp marked with ‘COM’ on the respective decoder output. Now, connect the two remaining clamps of the decoder output with outputs 1 and 2 of the turnout drive. Further examples can be found on the website (**www.ldt-infocenter.com**) in the download section.

Troubleshooting

- **What to do if something is not working as described above?**
- **Here are some possible functional errors and possible solutions:**

1. During programming, the decoder addresses the relay on output moves within 1.5 seconds but does not confirm the programming with faster movement by depressing any key.
    - Change cable connections at KL2.
    - The interfered digital information at KL2 respectively lost voltage at the tracks! Connect the decoder directly with cables to the digital control unit or to the booster instead of the tracks.
    - Eventually, the clamps have been tightened to strong and therefore the clamps got loose at the soldering to the pc board. Check the soldering connection of the clamps at the lower side of the pc-board and re-solder them if required.
2. The programming of the decoder addresses functions as described, nevertheless, the connected consumers will not be activated.
    - Interfered digital information on KL2 respectively larger loss voltage at the tracks results in unsafe data transfer! Connect the decoder directly with wires to the command station or the booster **Further products within the Digital-Professional**

Series

- **S-DEC-4**
  4-fold turnout decoder for 4 magnet accessories with free programmable decoder addresses and possible external power supply.
- **M-DEC**
  4-fold decoder for motor-driven turnouts. For motors up to 1A. With free programmable decoder addresses. Drives can be connected directly with the decoder output.
- **LS-DEC**
  Light signal decoder for up to 4 LED train signals. Signal signs will be originally dimmed up and down and directly positioned via the decoder address.
- **RM-88-N** / **RM-88-N-O**
  16-fold feedback modules (also with integrated Opto-couplings) for the s88-feedback bus and the connection to Memory and

- Interface (Märklin / Arnold), Central Station 1 and 2, ECoS,
- Intellibox respectively TWIN-CENTER, EasyControl, DiCoStation, and HSI-88.

RM-GB-8-N
8-fold feedback module with integrated track occupancy detectors for the s88-feedback bus. All products are supplied as easy-to-assemble complete kits or as finished modules.

Made in Europe by Littfinski DatenTechnik (LDT) Germany

- **Phone:** +49 (0) 33439 / 867-0
- **Internet:** www.ldt-infocenter.com

Documents / Resources

	LDT 210313 4-Fold Switch Decoder [pdf] Instruction Manual 210313 4-Fold Switch Decoder, 210313, 4-Fold Switch Decoder

References

- de:ldt-infocenter [LDT]