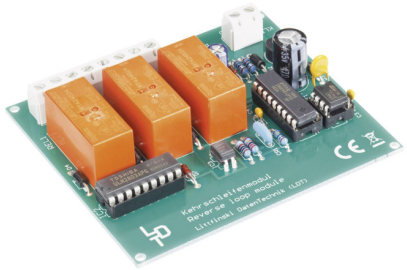


LDT Reverse Loop Module Instructions

Littfinski DatenTechnik (LDT)
Operation Instruction
Reverse-Loop Module from the Digital-Professional-Series !
KSM-SG-F LDT-Part-No.: 700502
>> finished module <<
Suitable for the digital operation of all digital formats
Instructions

Contents

Reverse Loop Module

The polar reversal at the reverse-loop will be performed without short-circuit via two sensor rails.
With reason to an external power supply possibility is a simple control of the reverse-loop with track occupancy module (e.g. RM-GB-8(-N) and RS-8) possible. The sensor rails will be controlled as well.
This product is not a toy! Not suitable for children under 14 years of age! The kit contains small parts, which should be kept away from children under 3! Improper use will imply danger or injuring due to sharp edges and tips! Please store this instruction carefully.

Introduction/Safety instruction

You have purchased the reverse-loop module KSM-SG for your model railway layout.
The KSM-SG module is a high quality product that is supplied within the Digital-Professional-Series of Littfinski DatenTechnik (LDT).
We are wishing you having a good time using this product.

- Please read the following instructions carefully. 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.

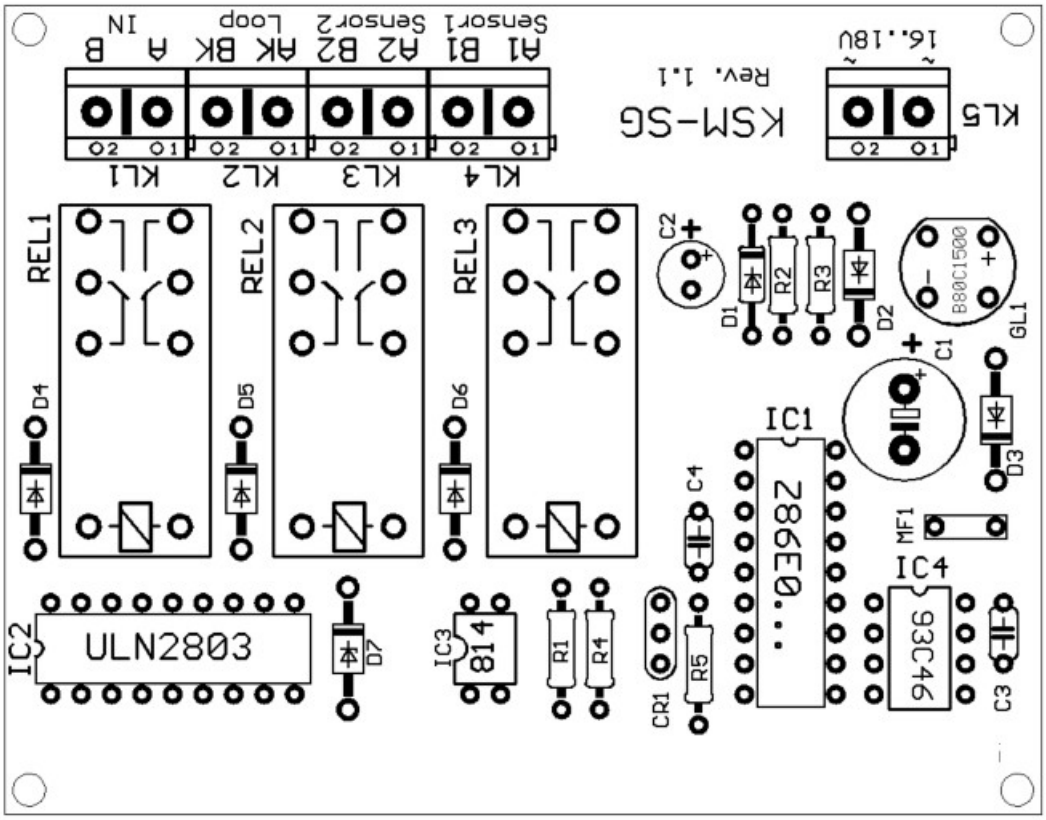
The KSM-SG comes as finished module and as finished module in a case with 24 month warranty.
Connecting the reverse-loop module to your digital model railway layout:

- **Attention:** Before starting the installation switch off the drive voltage by pushing the stop button or disconnect the main supply.

The reverse-loop module receives the power supply via the clamp KL5. The voltage of 16…18V~ of a model railway transformer (ac output) or 22…24V DC is acceptable.

Operation mode

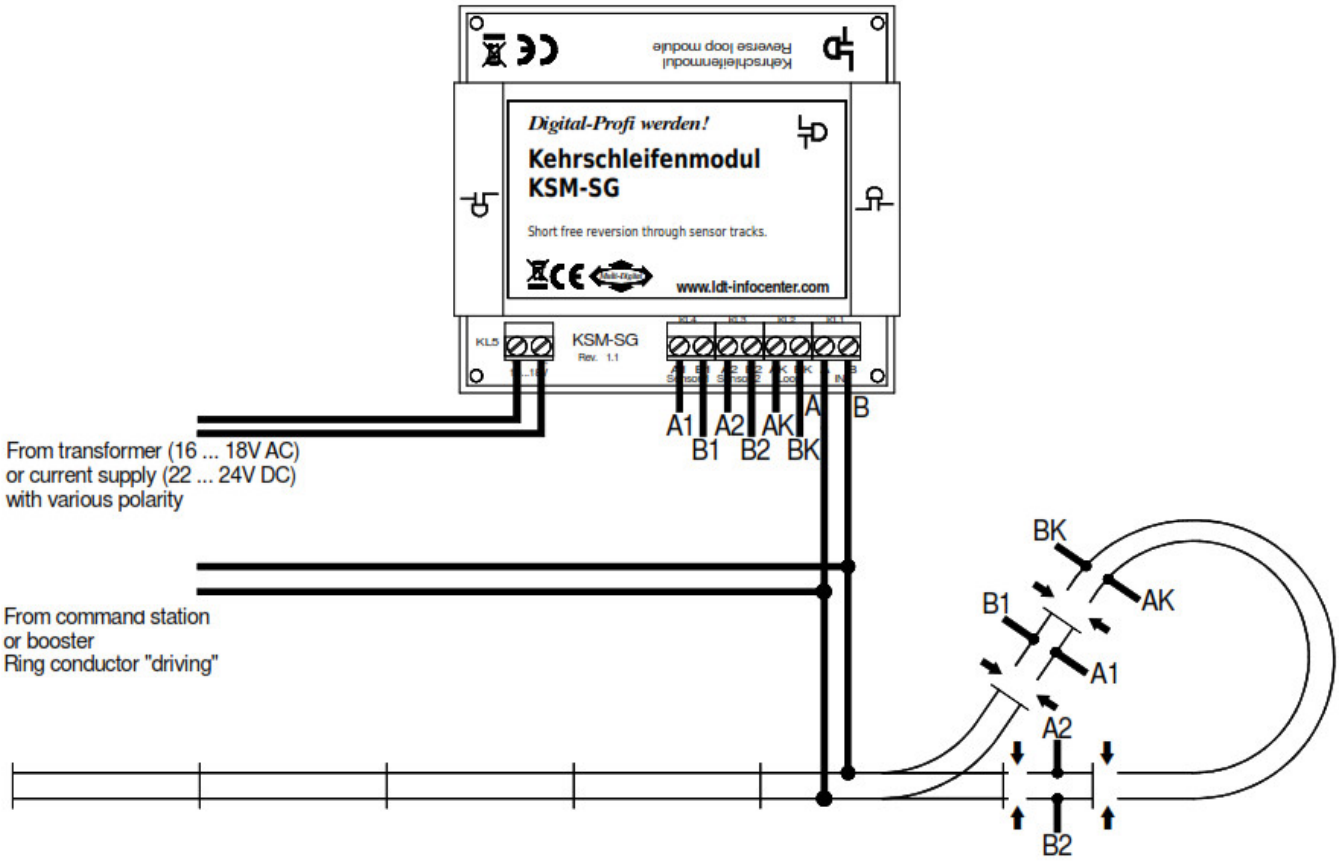
The reversal polarity of the reverse-loop will be performed without short circuit due to 2 sensor-tracks which are located at the entrance and at the exit of the reverse-loop.
Both rails of the sensor tracks (A1/B1 and A2/B2) and the reverse loop (AK/BK) will be completely isolated and connected to the respective marked clamps at the reverseloop module KSM-SG.
The sample connection 1 at the rear side of this instruction shows the complete wiring.
The optimal length of the sensor rails will be 5 to 20 cm. The reverse-loop rail gets the supply via the clamps AK and BK.
The reverse-loop rail has to have at minimum the length of the longest train of the layout.
The reverse-loop KSM-SG can switch up to 8 Ampere digital current.



The input A and B of the reverse-loop module KSM-SG will receive the digital current from the command station or from a booster from the ring-conductor “driving”. It is important that the reverse-loop will be complete inside one booster area and not between two rail sections which get the supply from two different boosters.
Because the KSM-SG itself requires no digital current and receives the energy from a model railway transformer or a switched current supply unit is a simple wiring for the control of the reverse-loop in combination with track occupancy sensors possible.
The sample connections 2 at the rear side of this instruction shows the reverse-loop control via the feedback module RM- GB-8(-N) with integrated track occupancy report.
The reverse-loop module KSM-SG inputs A and B receive digital current from one of the 8 outputs of the RM-GB-8(-N). On this process will be every current consumer within the reverseloop recognized and produces an occupancy report. The sensor tracks will be controlled as well.
Further information related to the control of reverse-loops can be found at the Internet on our Web-Site (**www.ldtinfocenter.com**) within the section “Downloads”. Please
download the file “reverse-loop_32” of the line “Reversing loop monitoring” onto your PC.
At the section “Sample Connections” on our Web-Site are additionally samples for the reversal polarity with the reverseloop module KSM-SG for further track layouts
available.

Accessories

For safe installation of the reverse-loop modules below your model layout we offer an installation set under the order code MON-SET and for the assembled kits a sturdy xact matching case (order code: LDT-01).
Sample Connection 1: Automatic polarity of a standard reverse-loop with the reverse-loop module KSM-SG.



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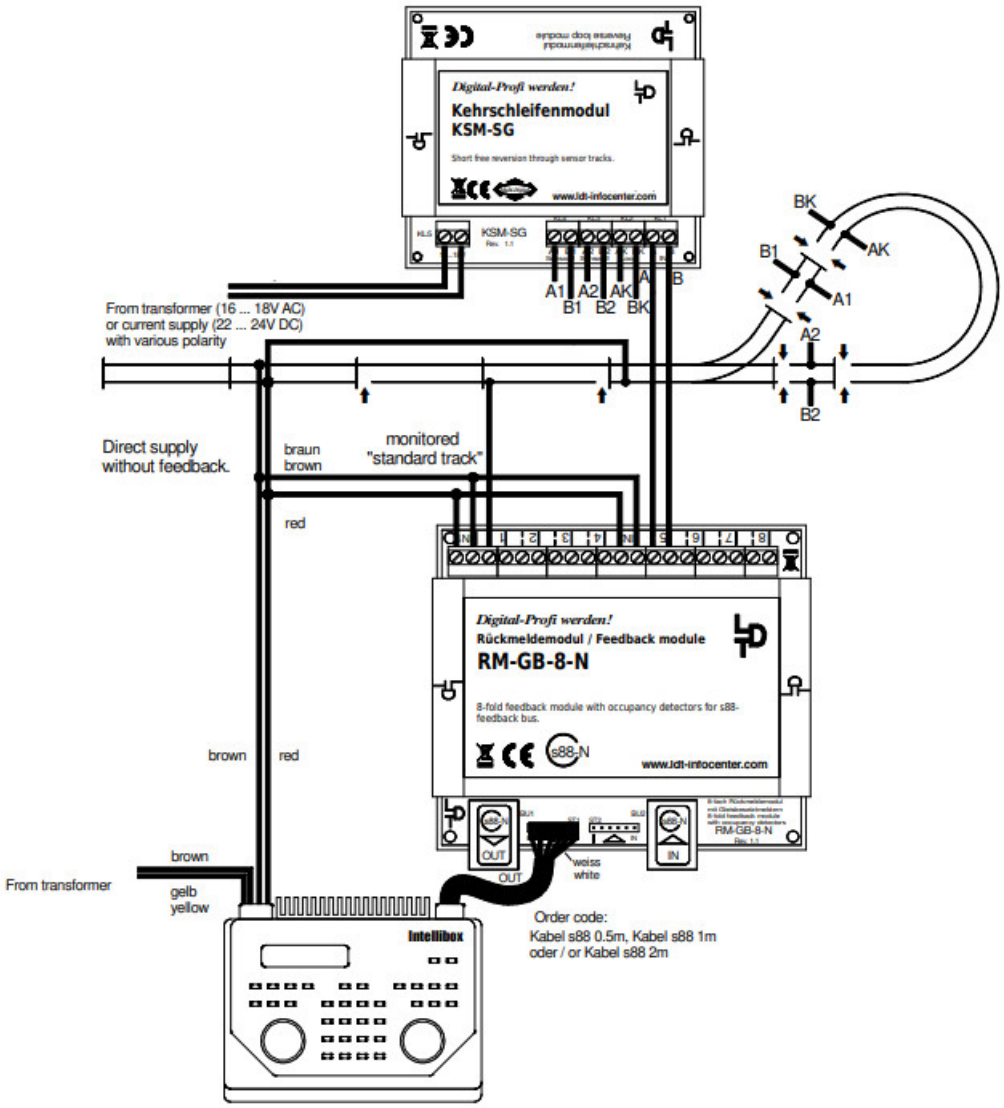
Sample Connection 2: Reverse-loop polarity via the reverse-loop module KSM-SG plus track occupancy report at the reverse-loop with the RM-GB-8-N. Sensor tracks will be monitored as well.



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Documents / Resources

	LDT Reverse Loop Module [pdf] Instructions Reverse Loop Module, Reverse Loop, Module

References

- de:ldt-infocenter [LDT]