Littfinski **D**aten**T**echnik (**LDT**)

Operating Instruction

Service-Module for Decoder for Switchboard Lights

from the *Digital-Professional-Series* !

GBS-Service-F Part-No.: 050042

>> finished module <<

Suitable for the Decoder for Switchboard Lights GBS-DEC and the KeyCommander KeyCom for setting addresses and operation mode.

If the **Service-Module GBS-Service** will be connected to the **Master-Module** of the Decoder for Switchboard Lights or to the **KeyCommander**,

⇒ the setting of addresses and operating mode can be carried out with 4 keys and a 16-digit lc-display.

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Introduction/Safety instruction:

You have purchased the **Service-Module GBS-Service** for the **Decoder for Switchboard Lights GBS-DEC** for your model railway.
The **Service-Module GBS-Service** is a high quality product that is supplied within the ***Digital-Professional-Series*** of **L**ittfinski **D**aten**T**echnik (**LDT**).

We are wishing you having a good time using this product.

The finished module comes with **24 month warranty**.

- Please read the following instructions carefully. Warranty will expire due to damages caused by disregarding the operating instructions. **LDT** will also not be liable for any consequential damages caused by improper use or installation.
- We designed our devices for indoor use only.

Connect the Service-Module GBS-Service to the Master-Module GBS-Master:

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

Connect the **15-poles pin-plug** of the Service-Module **GBS-Service** to the **15-poles socket-plug** of the Master-Module **GBS-Master** or to the **KeyCommander**.
Avoid any offset of the pin contact strip to the correct socket connection.
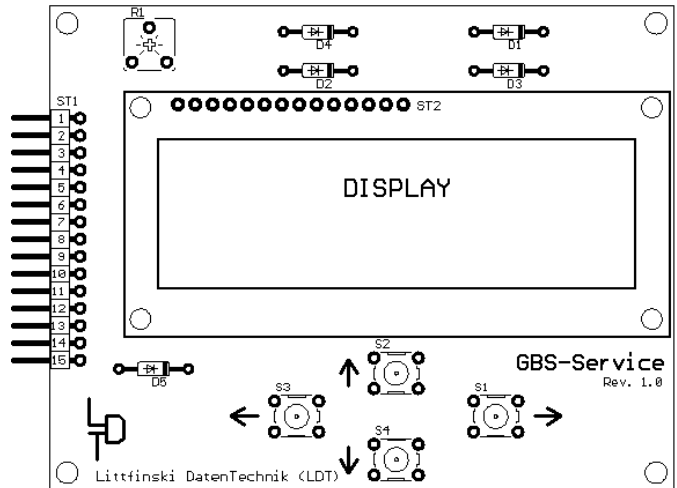
Mode of operation:

The **Service-Module GBS-Service** can operate **only together** with a **Master-Module GBS-Master** or a **KeyCommander** as it relays to the operating voltage and data of those modules.

Colored sample connections can be found on our Web-Site **www.ldt-infocenter.com** at the section "**Sample Connections**".

On which Master-Module (**GBS-Master-MM**, **GBS-Master-DC** or **GBS-Master-s88**) the Service-Module shall operate is indifferent.

At the **first start of operation** on a Master-Module or a KeyCommander, please turn **carefully** the **trim-pot R1 a half turn** to the **right** or **left** by using a **small screw driver** until you receive an optimal reading of the information at the display.

Now is the Service-Module ready for operation. The further application of the module will be explained within the operating instruction of the Master-Module respectively the KeyCommander.

Further products from our *Digital-Professional-Series*:

S-DEC-4
4-fold turnout decoder for four magnet accessories and 1A switching current each. With free programmable decoder address.

M-DEC
4-fold decoder for motor driven turnouts (Conrad, Hoffmann, Fulgurex etc.) with free programmable decoder address and possible external power supply.

SA-DEC-4
4-fold switch decoder with four bistable relays of 2A switching current each and free programmable decoder address.
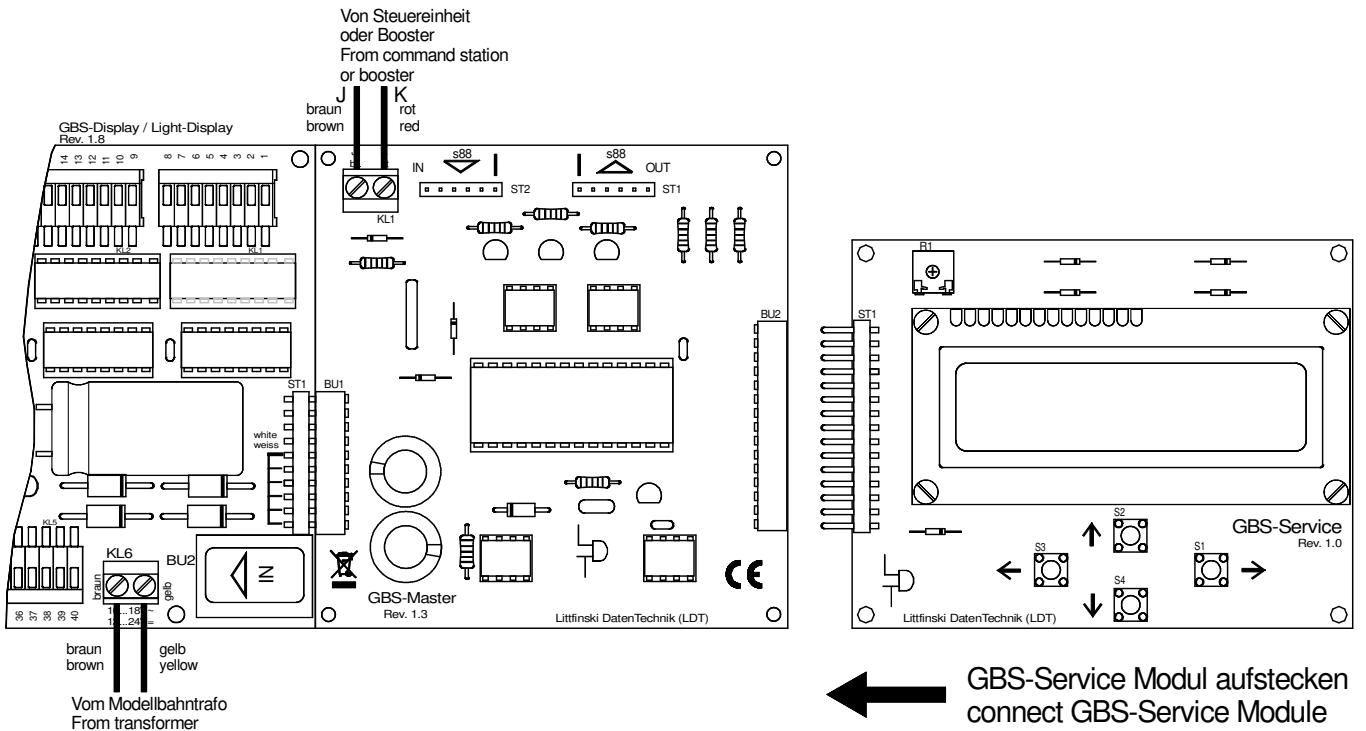
RM- 88-N / RM-88-N-Opto
16-fold feedback module for the s88-feedback bus. For s88-standard connections and connections to s88-N.
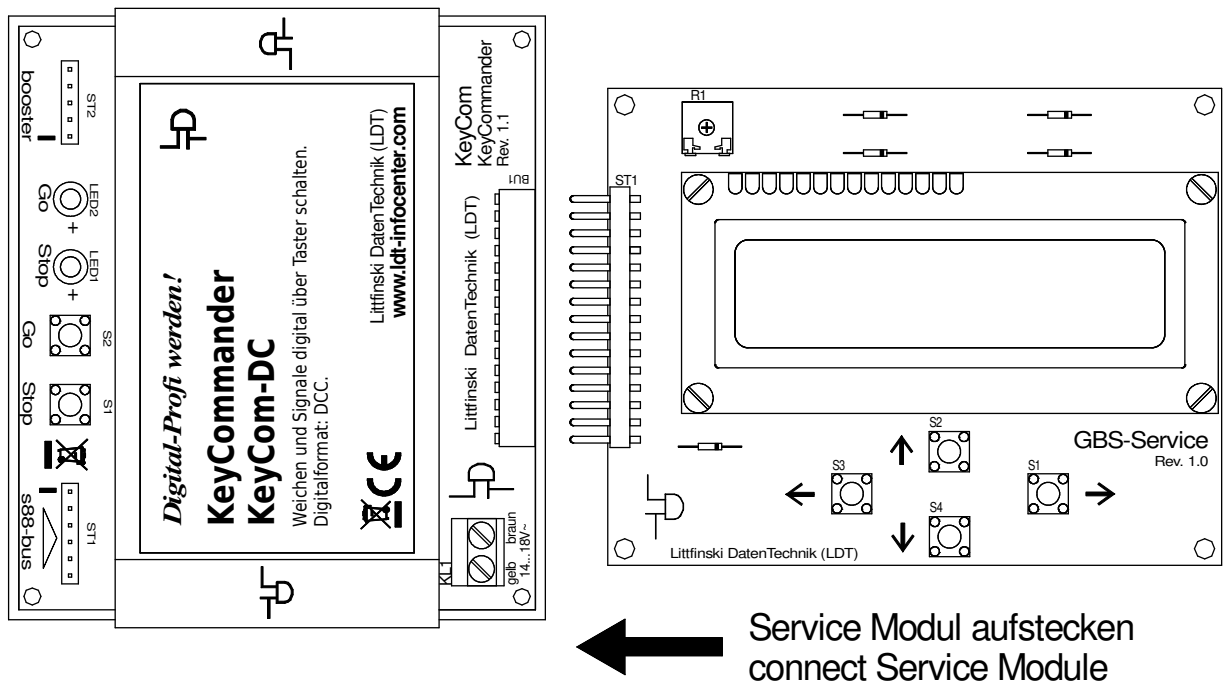
RM-GB-8-N
8-fold feedback module with integrated track occupancy detectors for the s88-feedback bus. For s88-standard connections and connections to s88-N.

All components are available as easy to assemble **complete kits** as **finished modules** or as **finished modules in a case.**

Picture 1: The **Service-Module GBS-Service** connected to the **Master-Module GBS-Master** via the **15-poles pin plug.**

GBS-Service Modul aufstecken
connect GBS-Service Module

Picture 2: The **Service Module GBS-Service** connected to the **KeyCommander KeyCom** via the **15-poles pin plug**.

Service Modul aufstecken
connect Service Module