



Components for the Transponder Technology (RFID)

Interface-s88

TD-88

TD-88-G Part-No.: 060023

>> finished module in a case <<

The **Interface TD-88** is suitable for the **s88-feedback bus**. It is able to manage up to **31 Transponder Reader Units COL-10** and feeds the **transponder data** into the **s88-Feedback Bus**.

The **transponder data** will be transmitted via the **High Speed Interfaces HSI-88** respectively via the **HSI-88-USB** to the **PC**.

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 of injuring due to sharp edges and tips! Please store this instruction carefully.



Introduction / Safety instruction:

You have purchased the **s88-Interface TD-88** supplied within the assortment of **Littfinski DatenTechnik (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 not be liable for any consequential damages caused by improper use or installation.
- Also, note that electronic semiconductors are very sensitive to electrostatic discharges and can be destroyed by them. Therefore, discharge yourself before touching the modules on a grounded metal surface (e.g. heater, water pipe or protective earth connection) or work on a grounded electrostatic protection mat or with a wrist strap for electrostatic protection.
- We designed our devices for indoor use only.

General functional description:

It is the task of the **Interface TD-88** to feed the **transponder data** of the **Transponder-Readers COL-10** into the **s88-feedback bus**. The **transponder data** will be transmitted on this way via the **High Speed Interface HSI-88** (for the COM-interface) or the **HSI-88-USB** (for the USB-interface) to the **PC**. Up to **31 Transponder Readers COL-10** can be connected to one **TD-88**.

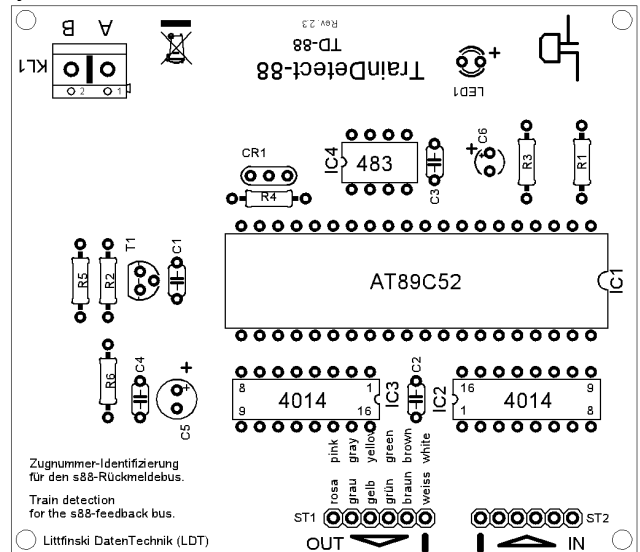
The **TD-88** occupies at the **s88-feedback bus** one feedback registration such as an **s88** or a **RM-88-N / RM-88-N-O, RM-DEC-88 / RM-DEC-88-Opto**. The **TD-88** can be assembled at **any convenient place** at the feedback bus line as a normal feedback module. It can be **combined** with all available s88-feedback modules.

TrainDetect-88 tied-up into the s88-feedback bus:

- **Attention:** Before starting the installation take care that all components will be voltage free.

Connect the **6-poles s88 bus plug** of the **TD-88** that way to one

of the three pin bars of the **HSI-88** or **HSI-88-USB** or to an available Feedback Module **RM-88-N / RM-88-N-O, RM-DEC-88 / RM-DEC-88-O** or **RM-GB-8-N** that the **white single wire** of the **s88-bus cable** will correspond with the **white marking** at **pin bar ST1** on the PC-board. **Following feedback modules** will be connected to the **pin bar ST2** of the **TD-88** on the same way.

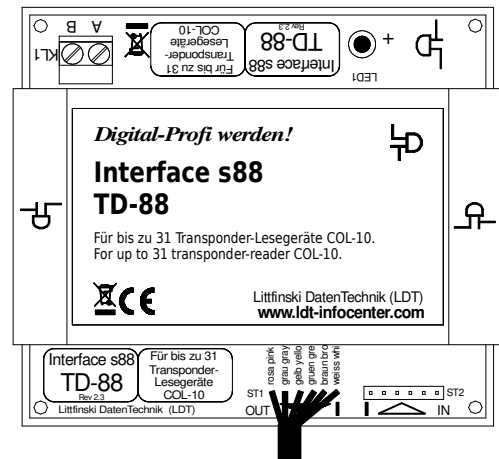


Connecting the TD-88 to the Transponder-Readers COL-10:

The **Transponder-Readers COL-10** shall be connected to each other and to the interface **TD-88** (clamp **KL1**) with a **twisted 2-wire cable** (e.g. simple bell wire).

Pay careful attention to the correct connection of the ports "**A**" and "**B**" between the components.

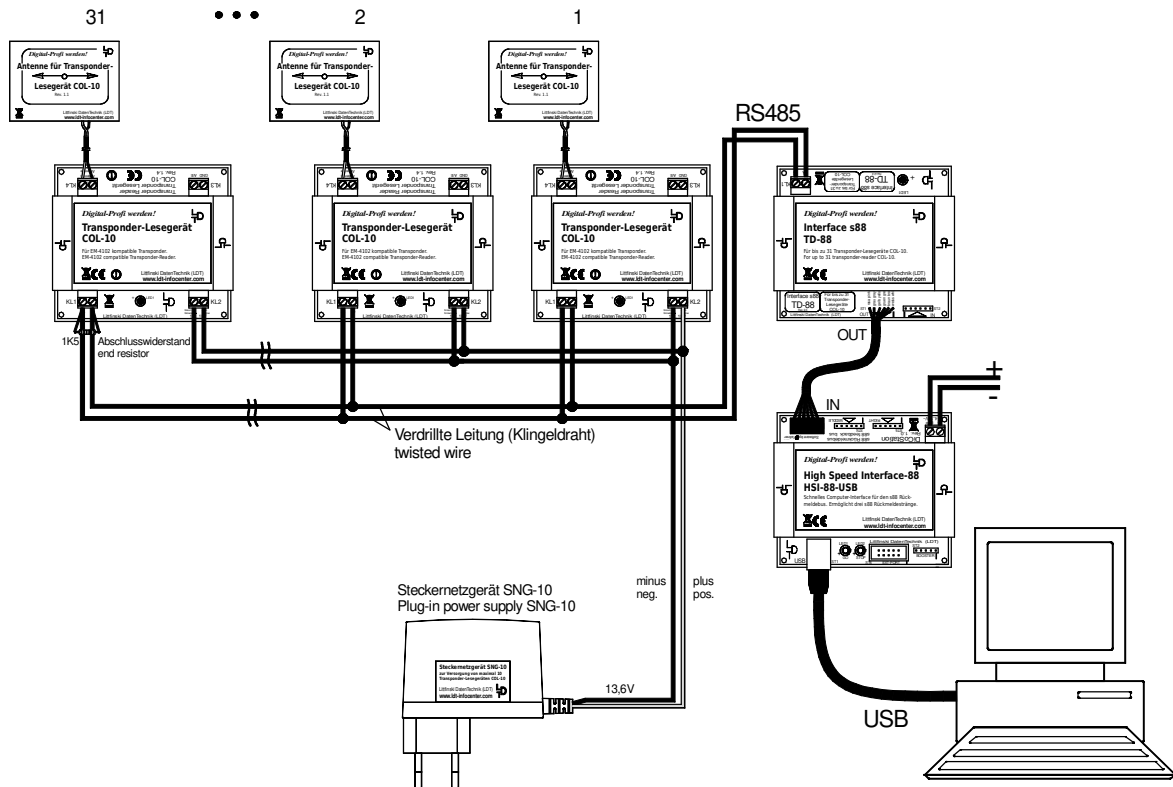
The enclosed **1.5 kOhm terminal resistor** has to be connected to the last Reader **COL-10** of the reader bus-line. Please attend to the **sample connections** at the rear side of this instruction.



Transponder Technology for the train identification on model railway layouts

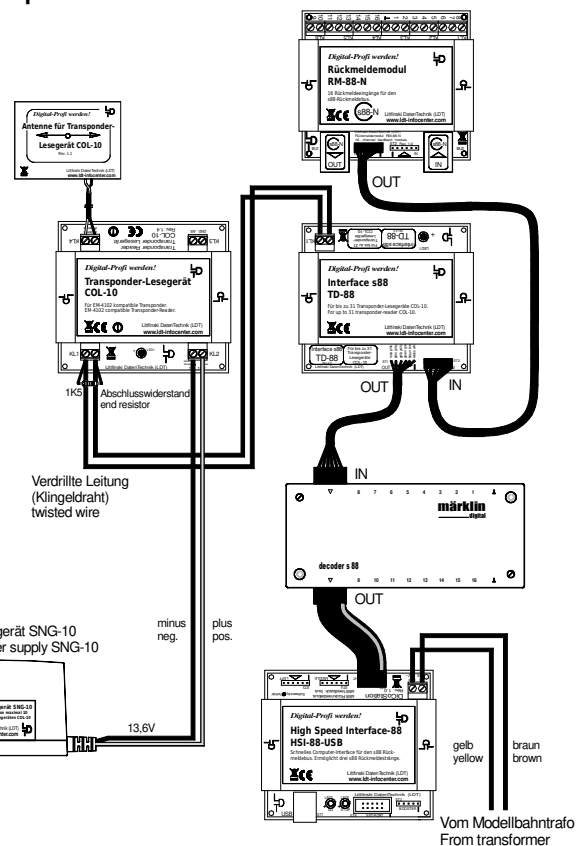
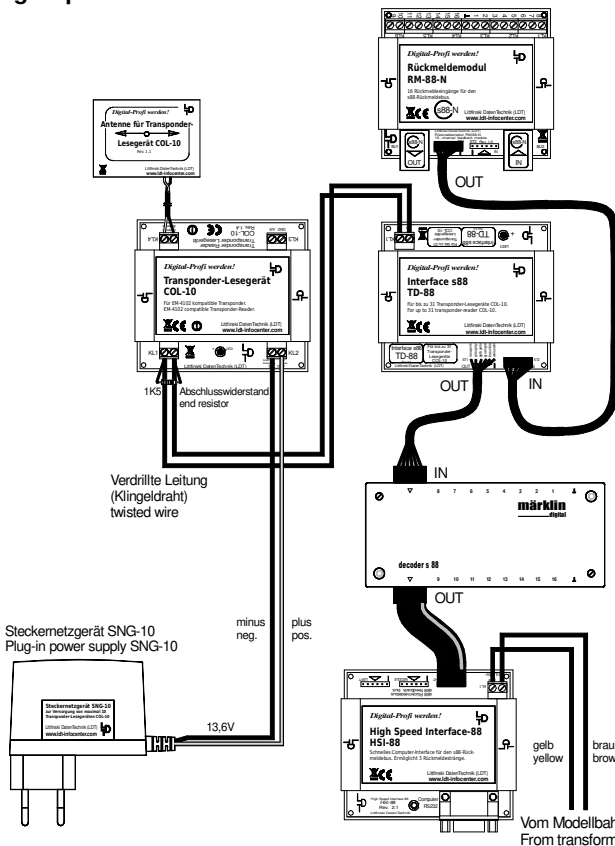
With the **train identification via transponder** is it possible to identify every train automatically. For this issue is it required to **assemble every train** on the layout with a **transponder**. At suitable **identification stations** (e.g. where new trains will be inserted) will be a **Reader COL-10** assembled. The **Transponder-Reader COL-10** transmits the unique laser programmed **serial number** read from the train **transponder** via the **Interface TD-88** or **INTER-10** to the **PC-model railway software**. At the software are the **transponder data** stored as **train-name** or **train-number** and will be **indicated** at the PC-screen at the **track layout display**. After the **model railway software train identification system** identified the **train** the software will realize the further **tracing** of the **train** and the **control** via the **standard feedback modules** such as **RM-88-N, RM-88-N-O, RM-DEC-88, RM-DEC-88-O** or **RM-GB-8-N** for the **s88 feedback bus** or **RS-16-O** or **RS-8** for the **RS-feedback bus**.

Picture 1: If the transponder information will be transmitted into the s88-bus via the **Interface TD-88** it is possible to transmit the data via the **High Speed Interface HSI-88-USB** and via the **USB Interface** to the PC. Each **Interface TD-88** is able to manage the transponder data of max. 31 Transponder-Reader COL-10. It is possible to connect up to 31 Interfaces TD-88 onto each HSI-88-USB.



Picture 2: TD-88 with a Transponder-Reader COL-10 for train identification within the s88-feedback line at the second position with a High Speed Interface HSI-88 for the serial COM-interface.

Picture 3: TD-88 with a Transponder-Reader COL-10 for train identification within the s88-feedback line at the second position with a High Speed Interface HSI-88-USB for the USB-interface.



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