



Data switch

from the *Digital-Professional-Series* !

DSW-88-B Part-No.: 040011

>> kit <<

suitable for the s88 feedback bus

The **data switch** enables to ramify the **s88-feedback line**.

The **data switch DSW-88** is suitable for all devices using the s88 feedback bus (**Märklin-Memory, Märklin-Interface, Intellibox, TWIN-CENTER or High-Speed Interface HSI-88**).

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 years of age! Improper use will imply danger or injuring due to sharp edges and tips! Please store this instruction carefully.



Introduction:

You have purchased a kit for your model railway that is supplied within the assortment of Littfinski DatenTechnik (LDT).

- These kits are easy to assemble and they are a product of high quality.

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

General:

Tools required for the assembly

Please assure that the following tools are available:

- a small side cutter
- a mini soldering iron with a small tip
- solder tin (if possible 0,5mm diameter)

Safety Instructions

- All electrical and electronic components included in this kit shall be used on low voltage only by using a tested and approved voltage transducer (transformer). All components are sensitive to heat. During soldering the heat shall be applied for a very short period only.
- The soldering iron develops a heat up to 400°C. Please keep continual attention to this tool. Keep sufficient distance to combustible material. Use a heat resistant pad for this work.
- This kit consist of small parts which can possibly be swallowed from children. Children (especially under 3 years) shall not participate on the assembly without supervision.

Set-Up:

For the board assembly please follow exact the sequence of the below **assembly list**. Cross each line off as **done** after completing the insertion and the soldering of the respective part.

For the **tantal-capacitors** please keep special attention to the connection marked "+". This has to correspond to the mark on the pc-board.

Resistor networks are marked at the one side with a printed circle or a square for Pin 1. Please insert the part that way that the marking of the part corresponds with the thick marked connection 1 on the board.

The **rotary code switch** is either marked on one side with a printed dot or a tapered side for the correct mounting position. Assemble this part that the marking corresponds to the tapered marking on the board.

Integrated circuits (IC`s) are either marked with a half round notch on one end or a printed point for the correct mounting position. Push the IC`s into the correct socket assuring that the notch or the printed point is corresponding to the half-rounded marking on the pc-board.

Please attend to the sensitivity of the ICs to **electrostatic discharge**, which will cause immediate damage of the IC. Before touching those components please discharge yourself by contacting an earthed metal (e.g. earthed radiator) or work with an electrostatic safety pad.

Assembly list:

Pos.	Qty.	Component	Remarks	Ref.	Done
1	1	PC-Board			
2	3	IC-Sockets 16poles	Attend to the polarity!	IC1...3	
3	3	IC-Sockets 14poles	Attend to the polarity!	IC4...6	
4	1	Network 4*10kOhm	Attend to the polarity!	RN1	
5	3	Capacitors 100nF		C1...3	
6	1	Tantal-cap. 1uF/35V	Attend to the polarity!	C4	
7	1	Rotary code switch	Attend to the polarity!	S1	
8	2	Pin plug bars 6poles		ST2, 3	
9	1	Connection cable 6poles	Attend to the color code!	ST1	
10	1	IC: 4027	Attend to the polarity!	IC1	
11	2	IC: 4526	Attend to the polarity!	IC2, 3	
12	1	IC: 4081	Attend to the polarity!	IC4	
13	2	IC: 4011	Attend to the polarity!	IC5, 6	
14			Final control		

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