Model railway electronic

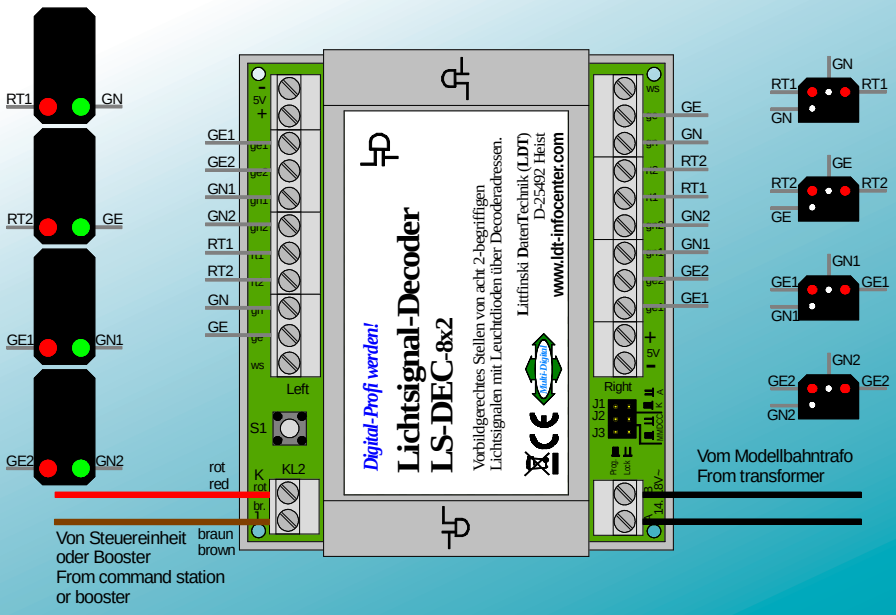
Components for control, digital switching and feedback monitoring on digital model railways!

Be a Digital-Professional!

Novelties 2018

1. LS-DEC-CSD: Light-Signal Decoder for light signals of the Czechoslovakian National Railway, CSD.

2. LS-DEC-8x2: Light-Signal Decoder for eight 2-aspect light signals.



Low cost kits, finished modules and finished modules in a case

Littfinski DatenTechnik - LDT

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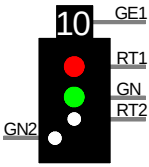
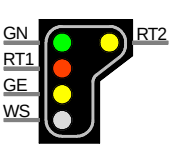
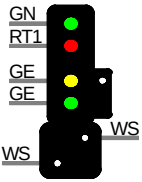
Be a Digital-Professional!

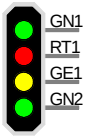
Our **Light-Signal Decoders** (**LS-DEC**) are a valuable **accessory** for **Digital-Layouts**, if a **prototypically switching** of **light signals** is expected. With **one digital switch command** is it possible to **display** as well **complex signal aspects with the Light-Signal Decoder**.
The **signal aspects** are **different** by the **various railway companies**. Therefore we offer many **variances** of the **LS-DEC** to **suit** the **requirement** of a **particular railway company**.
Till now we have **Light-Signal Decoder** within our program for **light signals**

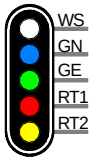
of the **Deutsche Bahn** (German Railways) (**DB** and **KS**),
of the **Deutsche Reichsbahn** (Imperial German Railways) (**DR**),
of the **Austrian Federal Railway** (**OEBB**),
of the **Swiss Federal Railway** (**SBB**),
of the **Nederlandse Spoorwegen** (**NS**),
of the **Nationale Maatschapping** of the **Belgian Spoorwegen** (**NMBS**),
of the **British Railway** (**BR**),
of the **Governmental Railway Corporation** of **Italy** (**FS**),
of the **Swedish State Railway** (**SJ**) and
of the **Governmental Railway Corporation** of **French** (**SNCF**),
of the **Luxembourg National Railway Company** (**CFL**) and
of the **American Color light signals**.











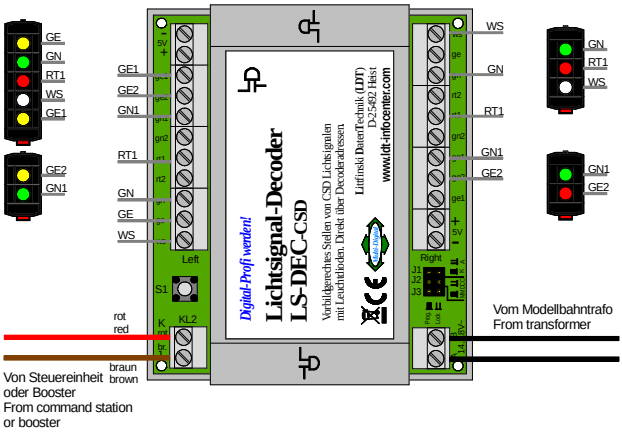
With the **LS-DEC-CSD** for **light signals** of the **Czechoslovakian National Railway** and the **LS-DEC-8x2** for **eight 2-aspect light signals** we completed our range by two further **Light-Signal Decoder**.

1. LS-DEC-CSD:

Light-Signal Decoder for up to 4 light signals of the Czechoslovakian National Railway, CSD.

With the **Light-Signal Decoder LS-DEC-CSD** can be **CSD-light-signal aspects switched** via **accessory addresses**.
It can be **CSD departure-signals, home-signals**, **advance-signals**, **block-signals as well as shunting signals** connected and controlled.

The **signal aspects** will not simply be cross faded but **switched as in reality**. Those signal lamps required for the next signal aspect will remain illuminated.



The **Light Emitting Diodes (LED)** of the signal which have to be **switched off and on** will be **dimmed down respectively up**. The **Light-Signal Decoder LS-DEC-CSD** is suitable for all **LED**-assembled **light signals** with **common anode** or **common cathode**. Via a **jumper** is it possible to **select the digital data format Märklin-Motorola** or **DCC**. Therefore is it possible to use the decoder **in interaction** with **any digital command station** which is transmitting the **Märklin-Motorola** and/or **DCC** data format.

The **operation and signal current has not necessarily to be supplied by the digital current circuit** but can be directly fed into a **separate input** from a **model railroad transformer**. This **saves expensive digital current**.

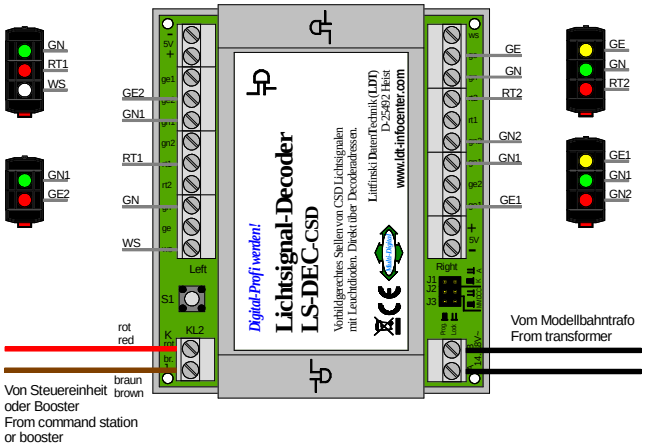
For the **programming** of the **decoder addresses** has the decoder to be set into the **programming mode** via the **push button S1**. If the **connected signals** are **controlled** via the **digital command station** or by the **model railway control software** the **decoder** will **recognize** the **address** and will **store** those. **It's as simple as that**!

Order code:

LS-DEC-CSD-B (Part-No. 510511): Light-Signal Decoder LS-DEC-CSD as **kit**.

LS-DEC-CSD-F (Part-No. 510512): Light-Signal Decoder LS-DEC-CSD as **finished module**.

LS-DEC-CSD-G (Part-No. 510513): Light-Signal Decoder LS-DEC-CFL as **finished module in a case.**



2. LS-DEC-8x2:

Light-Signal Decoder for eight 2-aspect light signals.

With the **Light-Signal Decoder LS-DEC-8x2** is it possible to switch **up to eight 2-aspect light signals** via **accessory addresses.**
It is possible to switch **2-aspect signals** of **different** signal **systems** e.g. with the **signal aspect "Stop"** and **"Proceed"**. At the **DB-Signal system** can be up to **eight block- or line-closed signals** controlled.
The **signal aspects** will not be simply cross faded but as in reality the prior aspect will be firstly dimmed-down and after a short **dark phase** the new signal aspect will appear. The **light emitting diodes (LED)** will be **dimmed up and down** during this process.
The **Light-Signal Decoder LS-DEC-8x2** is suitable for all **LED**-assembled 2-aspect **light signals** with **common anode** or **common cathode**. Via a **jumper** is it possible to **select the data format Märklin-Motorola** or **DCC**.

Order code:

LS-DEC-8x2-B (Part-No. 510711): Light-Signal Decoder LS-DEC-8x2 as **kit**.

LS-DEC-8x2-F (Part-No. 510712): Light-Signal Decoder LS-DEC-8x2 as **finished module**.

LS-DEC-8x2-G (Part-No. 510713): Light-Signal Decoder LS-DEC-8x2 as **finished module in a case**.