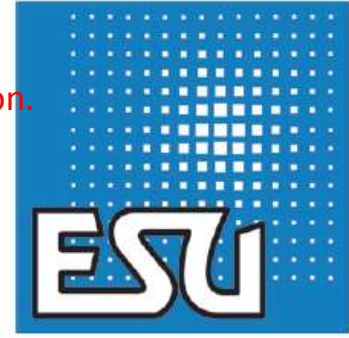


Please Note:

This document is an unofficial translation.

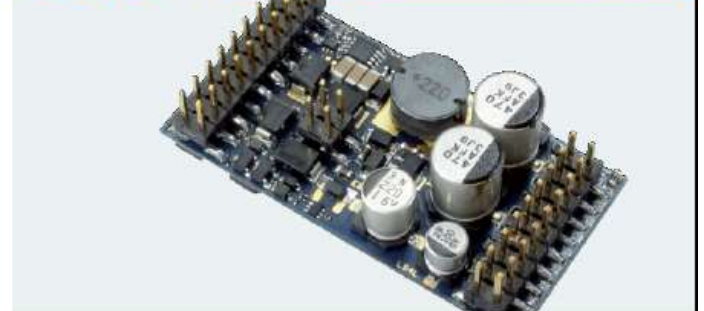
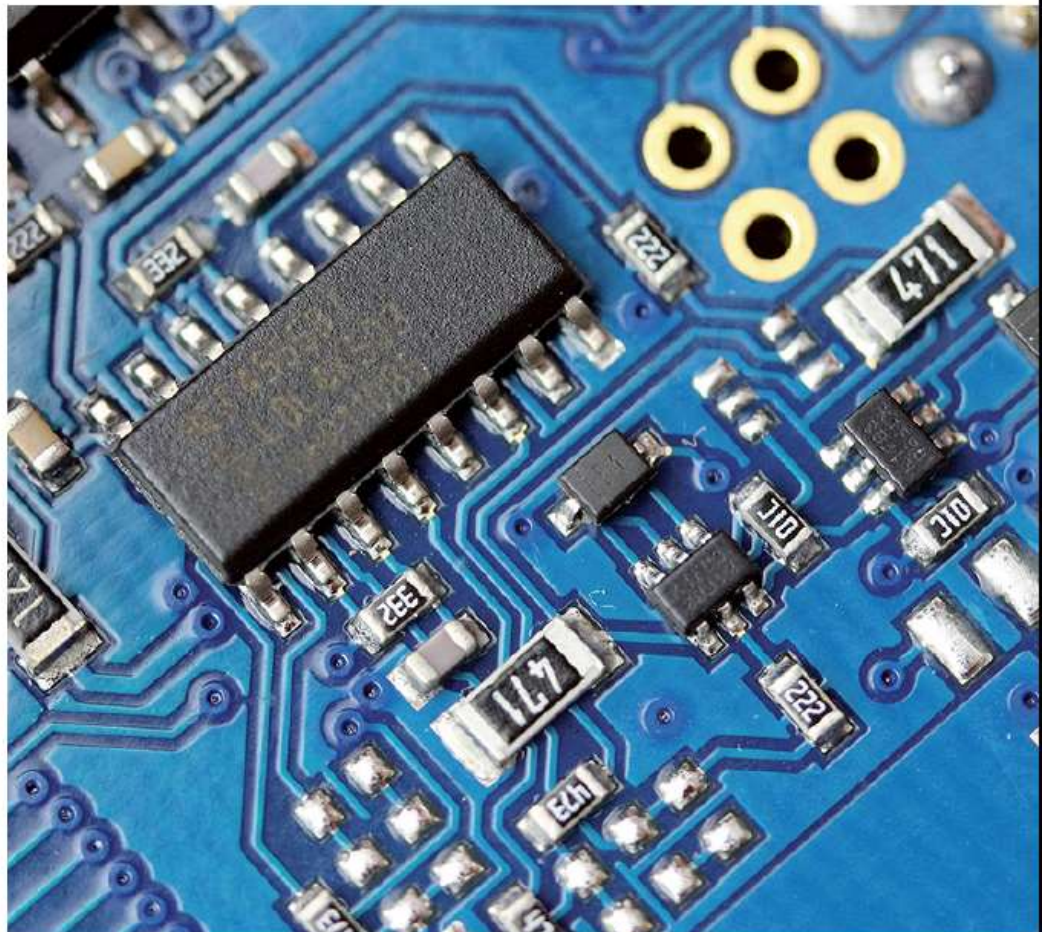
These notes are not an exact copy but  
my own interpretation of the  
New items for 2015.



It has NOT been authorised or approved by ESU.

Steve Weeks

# Neuheiten 2015





## LokSound L v4.0 (Available Q2 15)

Between the standard LokSound V4.0 and the LokSound XL V4.0 decoders is now the place of the brand new LokSound V4.0 L. With dimensions of 50.8mm x 25.4mm x 14mm it is specifically designed for gauge 0 traction units, but just as good for smaller Gauge 1 or G scale locomotives. The LokSound V4.0 L is a quad protocol decoder and capable of the following data formats DCC with RailComPlus®, Motorola, Selectrix® and M4.

This decoder must be installed with the supplied adaptor board.

### The sound

The most important component of a LokSound Decoder is the sound module. The LokSound V4.0 L has a 32MBit-Flash memory chip on which up to 276 seconds of original sounds can be held. The LokSound V4.0 L has 8 polyphonic channels. Therefore up to eight sounds can simultaneously be played via the 10-bit mixer and the low noise D / A converter. This allows us to get a much better feel for the real sound because we can bundle multiple channels. The digital "Class D" dual audio power amplifier with a total of 3.6W output power at the speakers. In order to control two different speakers an optional volume pot can be connected to the adaptor board.

### Decoder features

The LokSound V4.0 L is a Quad protocol-decoder and capable of the following four data formats: DCC with RailComPlus®, Motorola®, Selectrix® and M4.

Signs in to the ECoS and mfx® compatible control stations automatically. In DCC, up to 28 functions are available. With Märklin Central Station ® panels up to 16 functions are available.

For operation with Märklin 6021 with up to 4 addresses 16 functions can be switched. A built-in Programming mode allows for CV programming.

Fully compatible with LGB MZS® and Massoth.

All major braking sections recognized, for example, Märklin braking section, Lenz® ABC braking system or Zimo® HLU® systematics)

The decoder can be used with analog AC or DC systems.

With a motor output of 3.0A, Mabuchi, or Faulhaber® can be controlled easily.

A dual power amplifier for two speakers ensures rich volume.

There are 9 function outputs with 500mA power. Each Function output can be customized with special lighting effects, with either LED's or lamps.

2 RC servos can be plugged in directly.

The LokSound V4.0 L can operate a smoke generator with separate outputs for both Fan and Heater. There is also an input for temperature sensor.

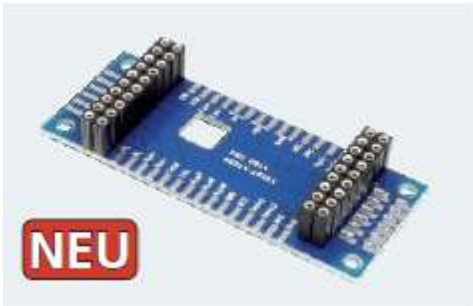
Three digital inputs for control functions, so it is possible for a contact installed under the locomotive to be triggered by track magnets.

An optional ESU "Power Pack" can be connected.

### Ordering Information

Product No.	Description
54399	LokSound L V4.0 with adapter board

## The LokSound L V4.0 Adapter board



This adapter board provides the matching socket for your new LokSound V4.0 L Decoder. The decoder is plugged directly into the socket connectors. The output side of the adapter board has solder pads for all functions of the decoder. Thus, the wiring of the many features of the decoder is very easy and the decoder can be easily replaced in case of emergency. The adapter board is fastened with screws in the model.

### Miniature Speaker (Available Q3 15)



The new rectangular miniature 8 Ohm speaker, despite its compact dimensions of only 11 x 15 x 3.5 mm produces a very convincing sound and works with all LokSound V4.0 decoders. The speaker comes with a four-piece acoustic enclosure set. This allows you to change the chamber depth to suite different models or alter the sound to your liking.

#### Ordering Information

Product No.	Description
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51959	adapter board for LokSound V4.0 L
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50321	loudspeaker 15mm x 11mm x 3.5mm, rectangular, 8 ohms, with Sound chamber, 0.5W
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