

Massoth[®]



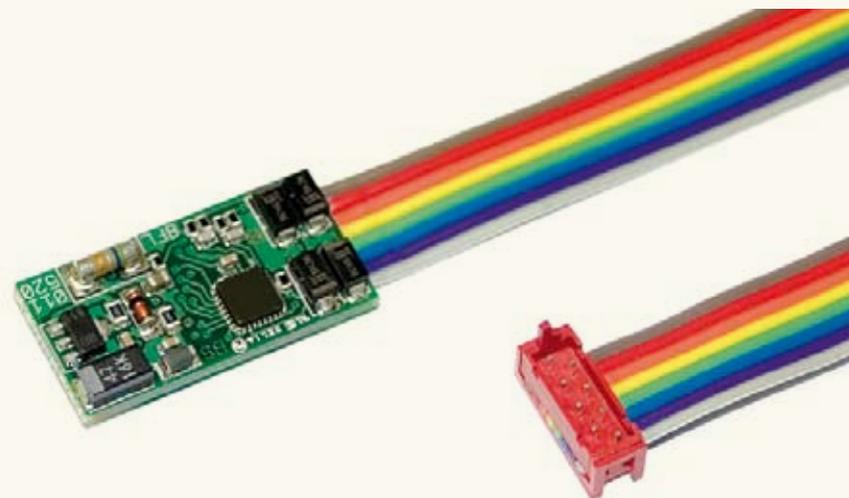
New Items 2007

eMOTION 8 FL Function Decoder

The eMOTION 8 FL function decoder features 8 function channels with max 0.6 AMPS each with a total load capacity of 1 AMP. The prominent feature is the option to control two servos either with the dial knob or with defined positions. In addition standard functions are channel on/off, short term function w/programmable turn-off time, and various light effects. The eMOTION 8 FL function decoder is very small in size; 14mmx28mm with a thickness of only 6mm. This small size allows for easy installation in locomotives, cars, and buildings. The decoder also comes with a custom made connector, which fits

the digital interface in LGB Car numbers:30520 RhB Gourmino and LGB 31520 RhB Passenger Car. These cars are ready for, and perfect for retrofitting with the eMOTION 8 FL function decoder: Four channels are used by these cars while four additional channels are still available for other functions. (Programming is achieved by all common CV programming features, as well as POM.) After removing the connector you may connect the function decoder to other components that do not have an LGB interface connection. A detailed wiring diagram is provided in the package.

eMOTION 8FL Function Decoder
Item-No.: 8152001



LED Lighting Electronic with integrated Decoder

The MASSOTH analog lighting unit has been a hit with our customers since it was launched onto the market several years ago. The white coating of the circuit board delivers optimum lighting effects in every car. Massoth Electronics' answer to requests for a lighting unit with integrated digital decoder is the NEW LED Lighting Electronic: it is equipped with energy saving LEDs, white coated circuit board, and 8 function outputs. You may choose between several light source simulations, e.g. regular bulbs, gas lights, fluorescent tubes, energy saving bulbs, and others with this new unit. The decoder features

8 function outputs, which may be used for the LEDs or other purposes. (Programming is achieved by all common CV programming features, as well as POM.) A second version of the LED Lighting Unit is offered without the integrated decoder. This unit can be used analog or may be connected to a function output of a digital lighting unit. The latter is the setup for cars that need two lighting units. Unit size: 26mmx100mm

**LED Lighting Electronic with
integrated Decoder**
Item-No.: 8122001
LED Lighting Electronic (analog)
Item-No.: 8123001



DiMAX PC Module

Staying current on Updates!

You can now use the new DiMAX PC Module to update your DiMAX Bus components directly. Or you may program your NMRA/DCC compatible digital decoder directly via PC software. (Microsoft Windows 98 or higher is required.) Your DiMAX Digital Central Station is no longer needed for updates so it can be left in-place on your layout.

Additionally, the DiMAX PC Module can handle all kinds of track components e.g. digital decoders, sound decoders, and other digital components. The DiMAX PC Module may be used to program new sounds into your sound decoder also. The DiMAX PC Module requires a transformer with at least 2 Amps.

A DiMAX Bus cable for the DiMAX Bus Components and a RS 232 COM cable to connect the Module with your PC are provided.



DiMAX PC Module
Item-No.: 8175001

DiMAX Motor/Switchdecoder

Total Control

Total control! The NEW MASSOTH Motor-/Switchdecoder gives you the ability to have total control and endless possibilities. The DiMAX Motor-/Switchdecoder is an all purpose special function decoder. It operates up to 3 function outputs either by digital signal or by triggered switch, allowing individual positioning. E.g. You may digitalize

your crane car with the DiMAX Operator Decoder and operate the boom horizontally or vertically and control the bucket or the hoisting winch....the possibilities are endless. (Programming is achieved by all common CV programming features, as well as POM.) The DiMAX Motor-/Switchdecoder is able to operate any kind of solenoid driven switch (2

and 3 wire) as well as switches that are driven by an electric motor. The DiMAX Operator Decoder features 6 programmable function inputs which are able to operate function outputs by a triggered switch. This allows you to operate a switch or any other component by a push button in the interlocking machine or by a track contact, triggered loco.



(preproduction prototype shown)

DiMAX Motor-/Switchdecoder
Item-No.: 8156001

DiMAX Reverse Loop Module

No Short Circuits!

The DiMAX RLM is a high performance unit which is able to handle digital track currents up to 15 AMPS without causing a short circuit. Conventional units cause short term, short circuits when the train enters the loop to trigger a change in the polarity of the track voltage. The new DiMAX RLM avoids just that.

The deliberate overload of the Digital Central Station by this method does not exist anymore. The DiMAX RLM extends the lifespan of all components involved considerably. The DiMAX RLM works with all NMRA/DCC compatible digital systems and depending on the voltage used, handles up to 15 Amps.

Current consumption like this can easily be reached with multiple motored G-Scale locomotives or consists of multiple locomotives. The DiMAX RLM may be used in the regular short circuit mode as well.



(preproduction prototype shown)

DiMAX Reverse Loop Module
Item-No.: 8157001

DiMAX 1203B Digital Booster The Power of Miniature Wonderland

Since 2004 Massoth Electronics is operating its high quality, high endurance digital boosters in Miniature Wunderland in Hamburg, Germany, on the world's largest digital HO layout. Ongoing high demand from Massoth Electronics customers led to the launch of the DiMAX 1203 B Digital Booster to be available for retail. The DiMAX 1203 B is a 12 Amp digital booster featuring three single power units, 4 Amps each. It also comes with an integrated breaking module function and reversing loop function. Our new intelligent rectifier for voltage regulation featuring minimized heat generation proves to be particularly

powerful and efficient. The Voltage can be adjusted indefinitely from 14 to 22 Volts and thus makes the booster applicable for all gauges. You may provide an external power supply from 14 to 24 volts DC or 12 to 16 Volts AC. Use of NMRA standardized CDE connectors to connect the booster with your central station is possible, also. Thus the booster can be utilized with any available central station. Feedback via CDE connectors is already integrated.

DiMAX 1203B Digital Booster
Item-No.: 8141001



DiMAX Feedback Module and Train Detection Module

Use the DiMAX Feedback Interface and DiMAX Train Detection Module to monitor the position of your trains with PC control software. In combination with a DiMAX Digital Central Station these components may be utilized for automatic functions as well. You may built digital shuttle operations, operate switches and signals automatically and trigger driving commands for your trains directly without using a PC. The DiMAX Feedback Module is connected to the DiMAX Bus at the Central Station like any other DiMAX component. The unit guards up to 8 contacts. The feedback contacts are individually programmable

by CV programming. The Train Detection Module is an additional component to the feedback interface. The feedback interface needs to be programmed accordingly. The voltage sensitivity can be adjusted with a dip switch. The feedback module and the train detection module are usable for all gauges. The circuit boards of both units are especially treated to withstand the rugged operation in garden railroad environment. The new DiMAX feedback unit and Train Detection Modules are compatible with all generations of LGB MTS system components and they substitute established LGB modules (LGB 55070 and 55075).

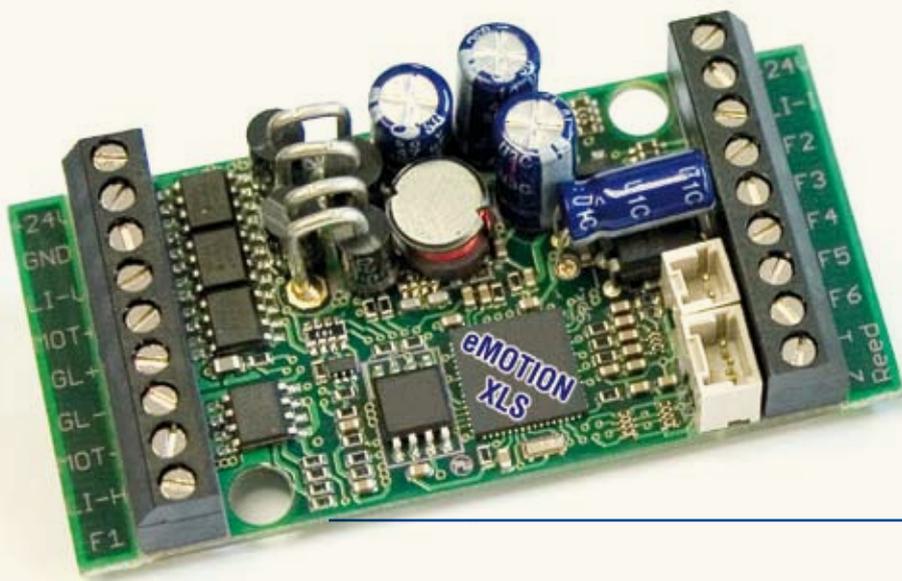
DiMAX Rückmelder
Item-No.: 8170001
DiMAX Belegmelder
Item-No.: 8170501



eMOTION XLS Sounddecoder Cool Sound for Big Locomotives

The new eMOTION XLS Sound Decoder is the up and coming standard of the exquisite garden model railroad sound decoders. The XLS features a powerful output stage for up to two motors (3 AMPS) as well as 1 AMP for sound, light, and other functions. Additionally, 11 function outputs including 3 light outputs and 4 contact inputs are available which makes this unit exceptionally feasible. The integrated sound power amplifier with 6 independent sound channels sets the standard in today's locomotive sound simulations. The audio power amplifier delivers 1 watt (sinus) at 8 ohms impedance. The eMOTION XLS Sound Decoder delivers optimum characteristics for analog and digital operation. The XLS works in analog mode starting at the lowest voltage possible. The settings and functions of the decoder may be set with the DiMAX

PC Module and may be used in analog mode. Thus sounds may be triggered in analog mode via reed contacts. The eMOTION XLS is compatible to NMRA/DCC and works with all generations of the LGB MTS systems. State of the art DATAFLASH technology and the latest programming procedures enable the re-loading of sounds and software directly via the track. The XLS is delivered with a HiFi loudspeaker (57 mm) with a metal cap and an interface cable for LGB and Aristocraft DCC. The unit may be installed wire by wire as well. Mounting material is provided.



eMOTION XLS Sounddecoder

	Dampfloks	Baureihe, Typ, Achsfolge	Bezeichnung
	8210080	1C1	Harz 3-axle Steam Locomotive (prototype HSB 99 6001)
	8210081	1E1	Harz 5-axle Steam Locomotive (prototype HSB 99 222)
NEW	8210084	BB	Saxonian two-bogie Steam Locomotive
NEW	8210100	B	Small Standard Narrow Gauge Steam Locomotive
NEW	8210110	BB	Harz Mallet (prototype HSB 99 590)
NEW	8210200	G 4/5	RhB Steam Locomotive
NEW	8210500	BR 01 / 03 / 012	Large Standard Steam Locomotive Regular Gauge
Dieselloks			
	8220051	V51 / V52	Rügen Diesel Locomotive (V51) + DB Diesel V 52
NEW	8220055		Alco Diesel Locomotive (White Pass & Yukon)
NEW	8220066	VT133 / VT 98	"Anteater" Railbus
	8220090	Kö / Köf	Diesel Switcher
NEW	8220096	BoBo	ÖBB Diesel Locomotive 2096
NEW	8220500	BoBo	Large Standard Diesel Locomotive Regular Gauge
NEW	8220510	BR 218	DB Diesel Locomotive V160
Elektroloks			
NEW	8230035		Old German Streetcar (Prototype Darmstadt)
	8230040	Ge 6/6 I	RhB Electric Locomotive
	8230042	Ge 4/4 III	RhB Electric Locomotive
NEW	8230043	Ge 4/4 II	RhB Electric Locomotive
NEW	8230200	Ge 6/6 II	RhB Electric Locomotive
NEW	8230510	BR 182	Taurus
NEW	8230520	ICE I	ICE Inter City Express (Generation 1)

Subject to change without notice!

Technische Daten

Technical Data Drive Decoder:

- NMRA/DCC compatible
- LGB® MTS I, II, and III compatible
- best driving characteristics with analog op. (selectable)
- 14, 28, and 128 Speed Steps
- 256 internal speed steps
- 10239 Locomotive Addresses
- Automatic Detection of operating mode and speed steps setting
- 3.0 Amps max. continuous output (drive stage)
- 4.0 Amps max. maximum total output (incl. functions)
- Adjustable Motor frequency
- Load Control in digital and analog
- Switching Speed (programmable)
- Adjustable Motor driving curve

Technical Data Sound Amplifier:

- 6 independent sound channels
- High end amplifier stage with 1 Watt output (sinus)
- Loudspeaker connection with 8 Ohms impedance
- Sound Storage Capacity up to 150 sec.

Technical Data Function Outputs

- 3 Light outputs (front, rear, internal 0.3 Amps each)
- 6 Function outputs (0.6 Amps each)
- Programmable Special Functions
- Suitable for Power Buffer connection
- 1 Amp max output of all function outputs
- Intelligent function mapping up to F16
- Parallel and serial data processing (LGB® MTS Pulse Chain Control) and automatic detection (serial data processing disengageable)

Size in Millimeters: 55 x 32 x 15 mm



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