

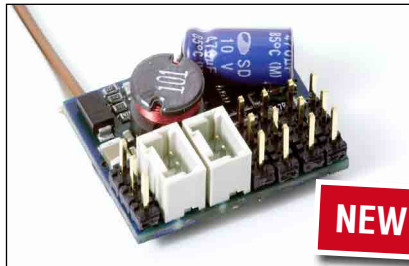


Editorial

Dear Garden Railroading friends, this year's summer season was nearly perfect for playing trains outside. We had some beautiful summer days for lots of fun in the garden. Even if it was a little too hot on some days.

You will find some interesting details in this newsletter about the brand new well-arranged function mapping, which is now available with two types of our function decoders for the first time. You will have a look at our new items that just became available. We also want to inform you about the upcoming changes in our service-department and some items that are being replaced or discontinued (for more details see last page). We hope you will enjoy reading!

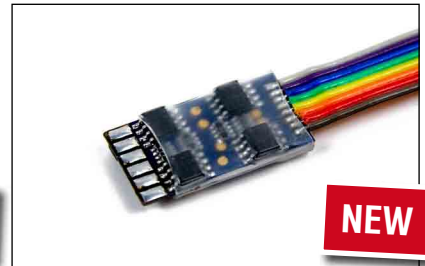
Now available and shipping!



NEW

8152501 eMOTION 8FS Servo Decoder

As a new item of 2013 the eMOTION 8FS servodecoder is now available. It offers the new functionmapping with more than 400 CVs to control a wide range of functions and components, e.g. direct uncoupler and servo hookup (standard servo and precision servo). We also implemented different special functions. Serial data transmission is not supported.



NEW

8152001 eMOTION 8FL Function Decoder

Our currently available series of eMOTION 8FL decoders has already been updated with the new functionmapping (like 8152501 eMOTION 8FS Servodecoder). Serial data transmission is not being supported any longer. We highly recommend to follow the new instruction manual as there have been some major changes regarding the updated functions.

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8135501 DiMAX 1200T Switching Power Supply

AVAILABLE



At the beginning of this year we had to stop distributing the DiMAX 1200Z central station due to new legal guidelines. As of this, power supply and central station cannot be combined in the same body any longer. Therefore two separate components are required. Since the beginning of this year we offer the DiMAX 1210Z central station with the same amperage of 12 amps. Additionally to the DiMAX 1200Z requires an external switching power supply which has become available a few weeks ago. The new 1200T switching power supply fits the central station perfectly and is greatly

complementing our product line. It is high-power and comes with a high quality metal case, which perfectly fits the look of the central station. It offers a certified high quality industrial switching power supply with PFC (automatic power factor correction) and is therefore a universal power supply for your train layout:

- Operating voltage: 110V-230V
- Output voltage: 24V
- Output current: 13 A (15 amps peak)



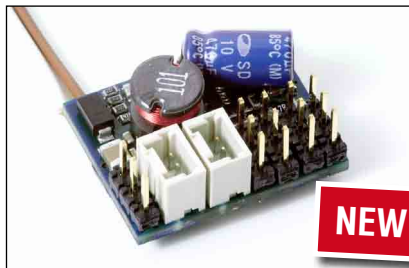


Massoth introduces the new function mapping generation with the eMOTION 8FS Servo Decoder and the 8FL Function Decoder

The more light- and switching-functions you adapt to the decoder, the more complicated it gets to program the functions output. For this reason and other new ideas, we have completely restructured the functionmapping. From now on it is possible to use up to 400 CVs to create the desired functions. This amount of CVs may seem a lot, but the new clearly structured functionmapping is fast and easy to use.

Bitwise programming (e.g. CV29 of NMRA) is now in the past. Digital commands as the basis of functional standards are no longer part of this new logic. From now on the decoders functions are structured into different function types, which can all be set up with similar functional characteristics. This makes configurating easier. For every function output there is a preset CV-range (10 CVs each), with which you can set up standards.

For the first time you can set a function output in dependency of another function output (pairwise alternating function). Aside from diverse lightfunctions there are also functions available to controle the uncoup-

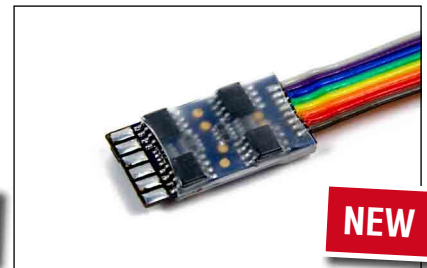


ler or servos (incl. precision servo).

All CV-ranges will be reCOORDinated in our new decoders. With that a logical and reasonable mapping will be realized. There will also be interesting and clearly structured changes regarding the function outputs. There will be different prereserved CV-ranges for different outputs: A1 (CVs 110-119), A2 (CVs 120-129), A3 (CVs 130-139)

This makes it easy to identify which CV-range has to be chosen for programming output A3, it would be CVs 130-139.

Right now CVs 1x0, 1x2, 1x3, 1x5 and 1x6 are being used, the other CVs are



reserved for future innovations.

See this example for output A3: In CV 130 there is a switch command mapping set. This means CV 132 is responsible for dimming and servo function. With CV 123 you controle the appropriate mode for the output. Now, one of 16 special functions can be set with CV 135. CV 136 controles the time period for the special function that was set in CV 135.

With the command allocation you controle the function key of the according output that is to be set. Also you can choose with this CV, if the function should be set to permanent automatic turn-on. You can

CV 1x0 Command allocation	CV 1x2 Dimming + Servo	CV 1x3 Condition	CV 1x4 Special Function	CV 1x5 Time Value
<ul style="list-style-type: none"> light function key 0 switch function keys 1...28 extended functions 1...127 (binary state functions) Permanent OFF Permanent ON (BufferControl) 	<ul style="list-style-type: none"> dimming 0...100% (usefull from 2%) standard servo standard servo with speed step operation servo with end position switch off precision servos inverted servo functions 	<ul style="list-style-type: none"> permanent activation forward only backward only standing only driving only ... and combinations 	<ul style="list-style-type: none"> symetric flash asymetric flash short/long mono flop switch-on delay photographer flash fire box TV flickering Petroleum flickering Flourescent tube US-Marslight US-Singlestroke US-Doublestroke Uncoupler alternating flash (paired with other output) 	<ul style="list-style-type: none"> 0,1...25 seconds (in 100ms steps)

also deactivate this CV right there.

The CV-range of dimming and servo functions controls how the output should be dimmed (e.g. for 5V light bulbs). The maximum dimming value of 100 equates to a full voltage of 22V. According to this, if a value of 10 is being set, the output will be open to 2,2V. Values above 100 will set servo mode and function.

The manual of the output controls, which mode of functions are being activated: If the output should be active only while the loco is standing, standing „backward“ or standing „forward“. You can also choose the mode and the output function for driving only, driving „backward“ or driving „forward“.

You can even choose a special function to be set for the output. For example photographer flash, fire box, petroleum flickering or US-singestrobe. You will find more special functions listed in the instruction manual. Some special functions

are only available with selected function outputs.

With the CV „time value for special functions“ you can set the desired time frame for the relevant function output. After the programmed time has passed, the special function will be activated.

This example shows the programming for a petroleum flickering of a steam loco - standing, connected to output 1, it can be switched with function key 5, dimmed to 4,8V, CV110=5, CV112=20, CV113=4, CV115=20.

More helpful innovations are the separate POM programming address (programming several decoders in one loco via POM) and programming lock. The upcoming newsletters will have these topics more explained.

In-house retailer training 2013

From August 25th-26th we offered this year's In-house retailer training. Main focus was on our current new items, especially the new IR control system, which has now been tested operating. We also informed about the new software concerning the new 8FS and 8FL decoder and the Firmware-Update version 1.9 for the navigator with several innovations: including Loco , sorting function and high functions.

Dates and Activities 2013

09.13.13 - 09.15.13 IMA International Model Train Exhibition Göppingen (Märklin)
09.27.13 - 09.29.13 15 year anniversary at Big Train World (www.bigtrainworld.nl)

Product-line changes

We have had several changes in our product range, some items have been discontinued and some have been replaced by new items (new items put in parenthesis). As oddments have been sold out, backorders will be canceled.

- 8136001 DiMAX 800Z (replacement 8136501)
- 8138501 DiMAX Transducer
- 8139001 DiMAX Loco ID Reader MTS II
- 8151001 Power Buffer (replacement 8151601)
- 8151501 Goldcap Buffer (replacement 8151701)
- 8411102 Interior Lighting Set 24V
- 920000x Figurines (oddments available)

Customer Service

In order to keep our high quality service we have had some changes within the last weeks.

A lot of times we receive locos that are not packed securely by the customer and therefore have shown transportation damages. It also occurs that necessary spareparts are not in stock or not available anymore. We therefore do not service any locos since July 1st. For repairs and any other service-requests concerning whole locomotives we advise all customers to contact their retailers and specialized repair shops.

Furthermore parallel-updates for MZS II components and soundelectronics are being discontinued, we will offer this update-service until the end of 2013. We suggest you to plan according to this information and send in any parallel update you still want to have performed.

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Massoth Elektronik GmbH
Frankensteiner Str. 28
D-64342 Seeheim (GERMANY)
Telefon +49 (0)6151-35077-0
Telefax +49 (0)6151-35077-44
eMail: info@massoth.de

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