

## mxion miniCap User Manual

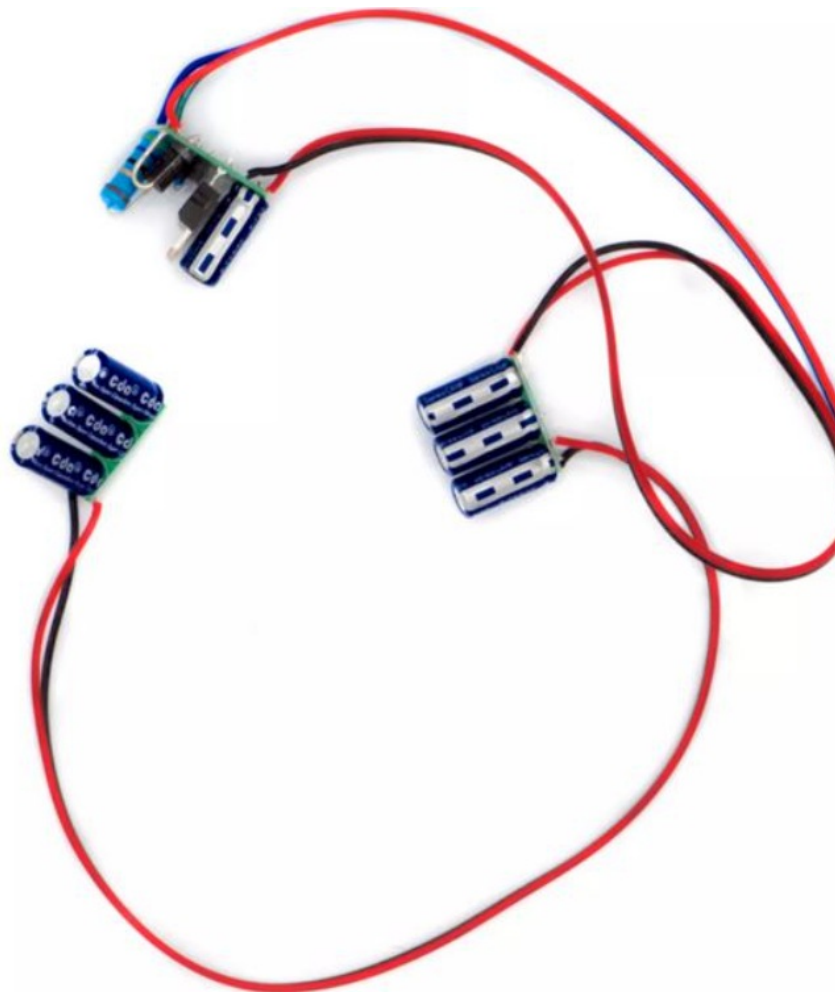
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# mxion

mxion miniCap



## Introduction

Dear customer, we strongly recommend that you read these manuals and the warning notes thoroughly before installing and operating your device. The device is not a toy (15+).

### **NOTE:**

Make sure that the outputs are set to appropriate value before hooking up any other device. We can't be responsible for any damage if this is disregarded.

## General information

We recommend studying this manual thoroughly before installing and operating your new device. Place the decoder in a protected location. The unit must not be exposed to moisture.

### **NOTE:**

Some functions are only available with the latest firmware.

Please make sure that your device is programmed with the latest firmware.

## Summary of Functions

The min Cap (Power cap) is used for bridging short-term interruptions at model railway locomotives or for buffering noises. Motor and decoder will be during the supplied from the buffer, the locomotive drives with the set speed continues without going from de-energized pieces to be influenced. The buffer is also excellent for sound modules in analog mode for the stop session. Also, can be used in analog (with decoder). Depending on the state of charge and load, the buffer 1-2 min. buffers the decoder, and so on bridge larger no-current areas. Due to the compact design ideal for everyone large trains from lane 0 to G.

### **Scope of supply**

- Manual

- mXion miniCap

## Hook-Up

Install your device in compliance with the connecting diagrams in this manual. The device is protected against shorts and excessive loads. However, in case of a connection error e.g. a short this safety feature can't work and the device will be destroyed subsequently. Make sure that there is no short circuit caused by the mounting screws or metal.

## Connectors

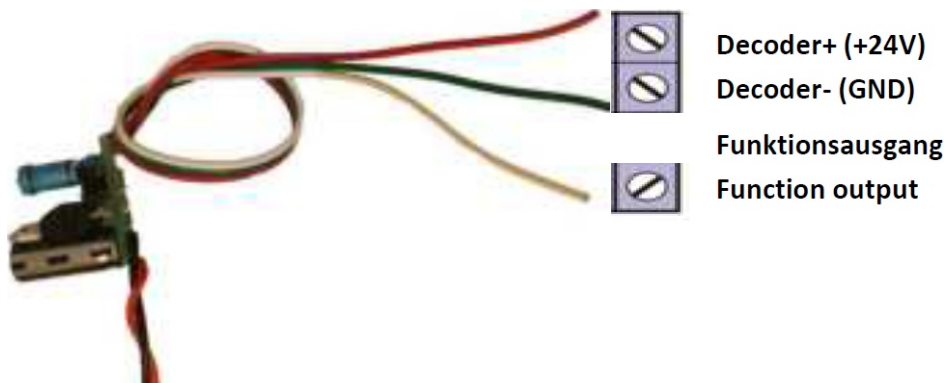
The buffer can be connected to all popular decoders be connected easy the connection to our decoder of the DRIVE series as well as our function decoder. You can the white cable to any output connect and there BC in the special function activate. For example Buffer at A1 CV123 = 20. For foreign decoders, remove the setting the respective manual of the manufacturer.

The red wire is connected to DEC+

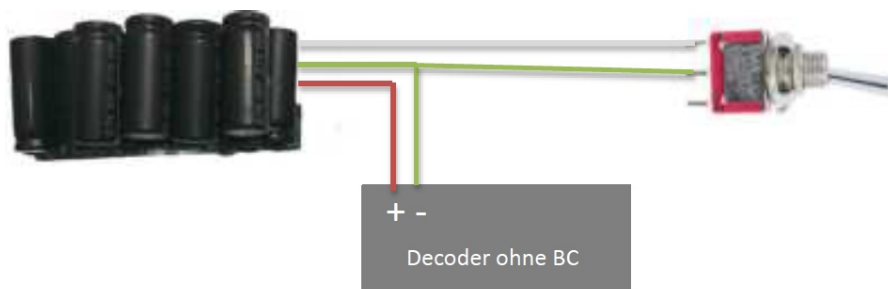
The green or black wire is connected to DEC-.

With built-in buffer, turn on the decoder CV29 bit 2 = 0, so that the decoder is the voltage of the buffer does not recognize as analog current. For decoders without BC options can be a switch between white and black cables are connected (foreign decoder).

### Connection for Decoder with BC:



### Connection for Decoder without BC:



## Technical data

### Power supply:

- 5 – 24V (DC)

### Current:

- 300 mA (at 24V track supply)

### Maximum output voltage:

- 20 V (fully loaded)

#### Maximum current output:

- 3 Amps.

#### Temperature range:

- -20 up to 65°C

#### Dimensions L\*B\*H (cm):

- each 0.7\*2.4\*3
- Rai Community compliant to RCN-530

#### NOTE:

In case you intend to utilize this device below freezing temperatures, make sure it was stored in a heated environment before operation to prevent the generation of condensed water. During operation is sufficient to prevent condensed water.

#### Warranty, Service, Support

micron-dynamics warrants this product against defects in materials and workmanship for one year from the original date of purchase. Other countries might have different legal warranty situations. Normal wear and tear, consumer modifications as well as improper use or installation are not covered. Peripheral component damage is not covered by this warranty. Valid warrants claims will be serviced without charge within the warranty period. For warranty service please return the product to the manufacturer. Return shipping charges are not covered by micron-dynamics. Please include your proof of purchase with the returned good. Please check our website for up to date brochures, product information, documentation and software updates. Software updates you can do with our updater or you can send us the product, we update for you free.

#### Hotline

For technical support and schematics for application examples contact:

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[www.micron-dynamics.de](http://www.micron-dynamics.de)

<https://www.youtube.com/@micron-dynamics>

#### Documents / Resources

	<p><a href="#">mxion miniCap</a> [pdf] User Manual miniCap</p>
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#### References

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- [!\[\]\(94dfacbf937cdd7da4837a6fcd8fc785\_img.jpg\) micron-dynamics](#)
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Manuals+.