

mXion maXiCap Spanning Buffer User Manual

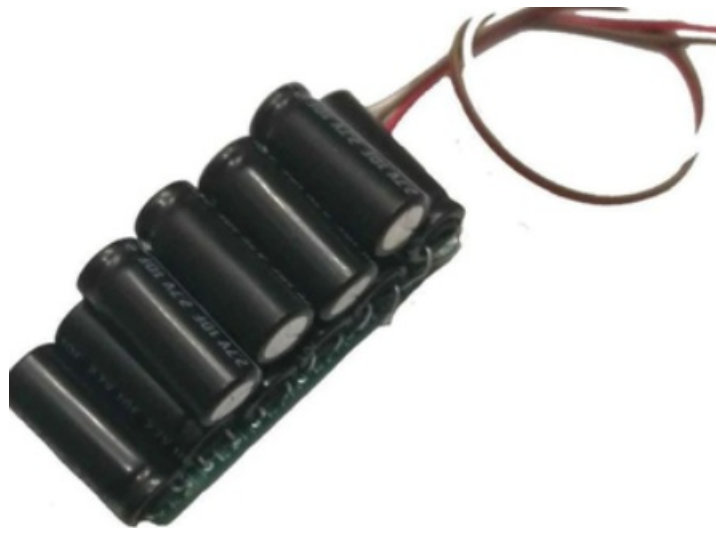
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mXion maXiCap Spanning Buffer



Product Information

The maXiCap is a device used for bridging short-term interruptions in model railway locomotives or buffering noises. It supplies power to the motor and decoder, allowing the locomotive to continue driving at the set speed without being affected by power interruptions. It is also suitable for sound modules in analog mode for stop sessions. The buffer can bridge larger no-current areas depending on its state of charge and load. The compact design makes it ideal for large trains from lane 0 to G.

Product Usage Instructions

General Information

Before installing and operating your new device, it is recommended to thoroughly study the user manual. The decoder should be placed in a protected location and must not be exposed to moisture. Some functions may only be available with the latest firmware, so ensure that your device is programmed with the latest firmware.

Hook-Up

Install the device in compliance with the connecting diagrams provided in the manual. The device is protected against shorts and excessive loads. However, if there is a connection error such as a short circuit, this safety feature may not work and the device could be damaged. Make sure there are no short circuits caused by mounting screws or metal.

Connectors

The buffer can be easily connected to all popular decoders, including the DRIVE series and function decoders. Connect the white cable to any output and activate BC (special function) at that output. For example, to connect the buffer at A1, set CV123 = 20. For decoders from other manufacturers, refer to their respective manuals for the correct settings.

The red wire should be connected to DEC+ and the green or black wire should be connected to DEC-. If the decoder has a built-in buffer, turn on CV29 bit 2 = 0 to prevent the decoder from recognizing the buffer's voltage as analog current.

For decoders without BC options, a switch can be connected between the white and black cables (for foreign decoders).

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 maXiCap (Powernap) 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 2-3 min. buffer 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 maXiCap

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

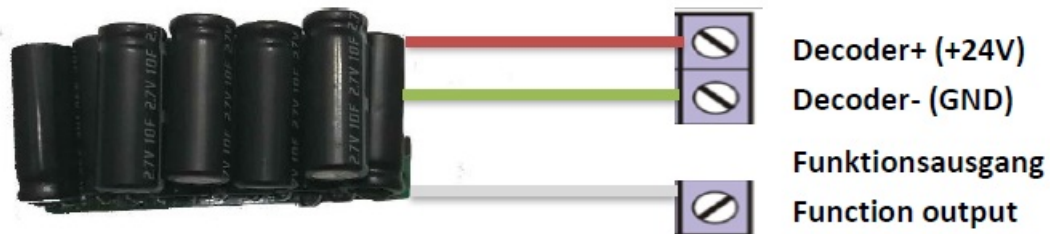
The buffer can be connected to all popular decoders be connected easy the connection to our decoder of the DRIVE series as well as our function decoder. You can the white cable to any output connect and there BC in the special function activate. For example Buffer at A1 → CV123 = 20. For foreign decoders,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

The red wire is connected to DEC+

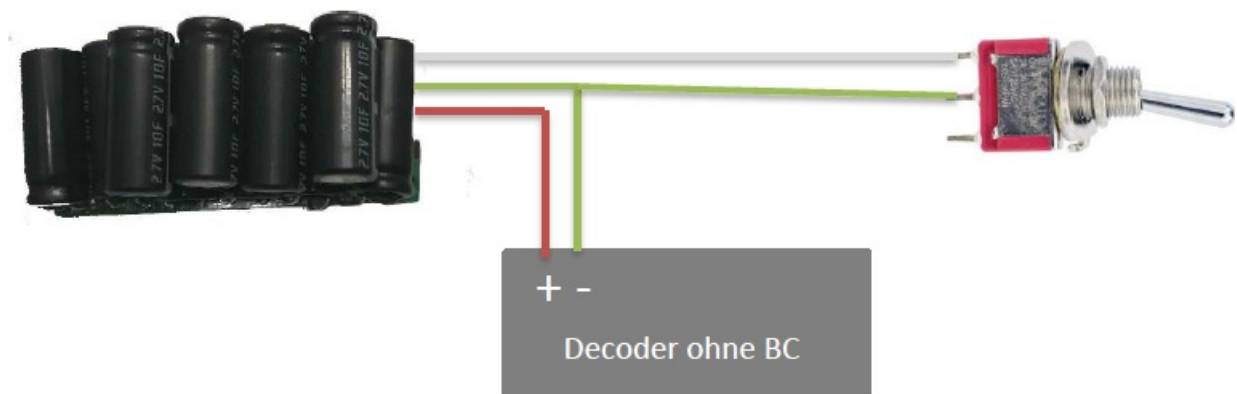
The green or black wire is connected to DEC-. With built-in buffer, turn on the decoder CV29 bit 2 = 0, so that the decoder is the voltage of the buffer does not recognize as analog current.

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: 400 mA (at 24V track supply)
- Maximum output voltage: 22 V (fully loaded)
- Maximum current output: 3 Amps.
- Temperature range: -20 up to 65°C
- Dimensions L*B*H (cm): 2.7*6*3.5
- RaiCommunity 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. Errors and changes excepted.

EC declaration of conformity

This product meets the requirements of the following EC directives and bears the CE mark for this.

2014/30/EU on electromagnetic compatibility. Underlying standards: EN 55014-1 and EN 61000-6-3. To the electromagnetic compatibility during operation to maintain, follow the instructions in this guide. EN IEC 63000:2018 to limit the use of certain hazardous substances in electrical and electronic equipment (RoHS).

WEEE Directive

This product meets the requirements of EU Directive 2012/19/EC on electrical and waste electronic equipment (WEEE). Dispose of this product does not have the (unsorted) household waste, but run it the recycling to. WEEE: DE69511269


Hotline

For technical support and schematics for application examples contact:

- micron-dynamics
- info@micron-dynamics.de
- service@micron-dynamics.de

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

Documents / Resources

	mXion maXiCap Spanning Buffer [pdf] User Manual maXiCap Spanning Buffer, maXiCap, Spanning Buffer, Buffer
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References

- [📄 Top Fahrradbekleidung für Damen & Herren - Ride your Style](#)
- [🔗 micron-dynamics](#)
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