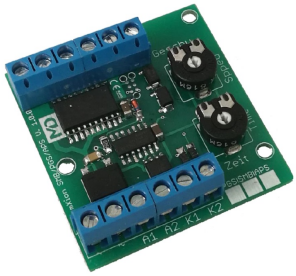

mXion APS Shuttle Train Control User Manual

Contents

mXion

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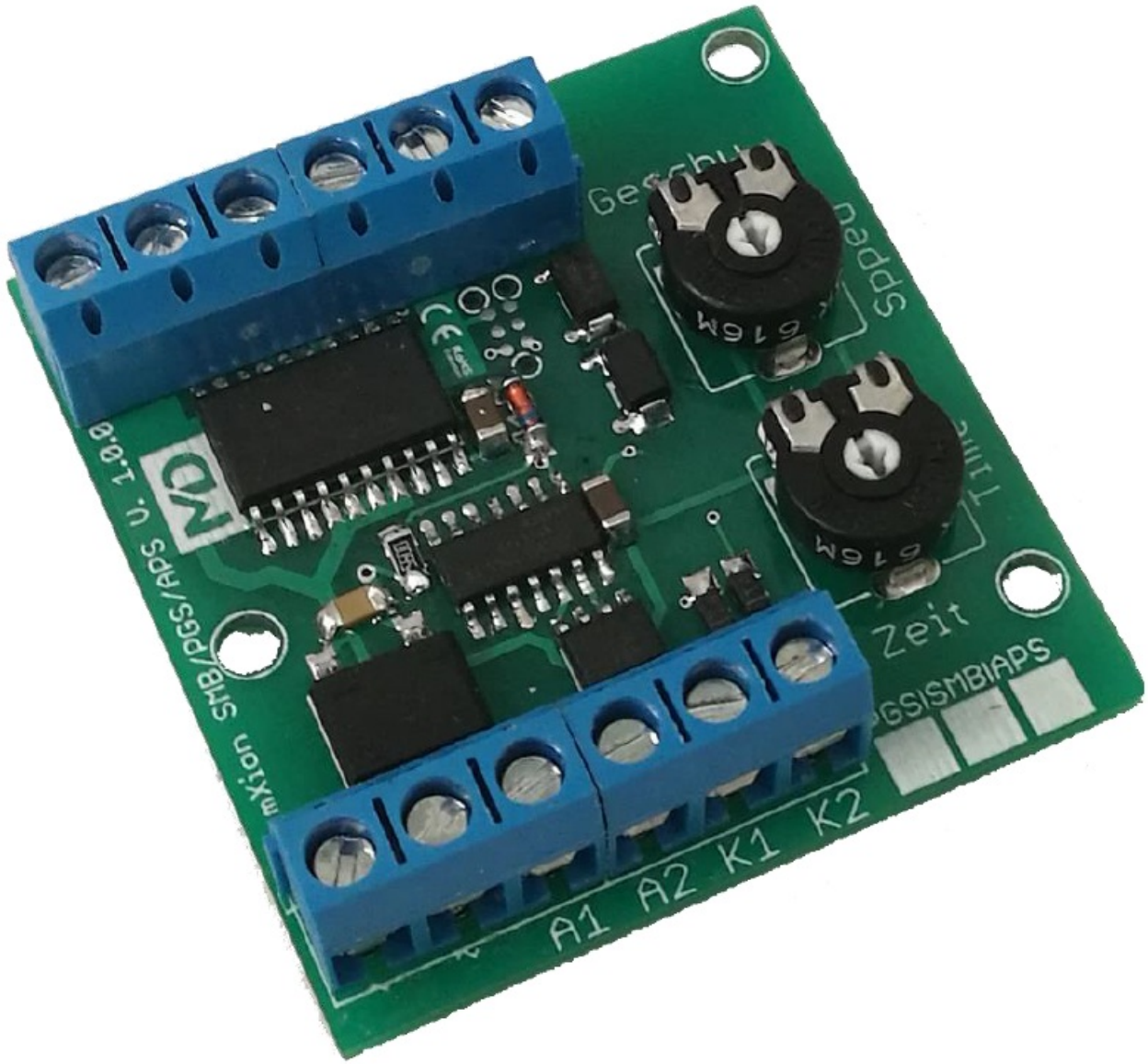


Introduction

Dear customer, we strongly recommend that you read these manuals and the warning notes thouroughly 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 funktions are only available with the latest firmware. Please make sure that your device is programmed with the latest firmware.

Summary of Funktions

- DC/AC/DCC operation
- 2 engine outputs (each 0,8A)

- 2 contact inputs
- 2 function outputs
- Poti for stop time
- Poti for drive time
- Screw drives for stable mounting Drive time between 2 – 132 sec. Wait time between 0 – 64 sec.

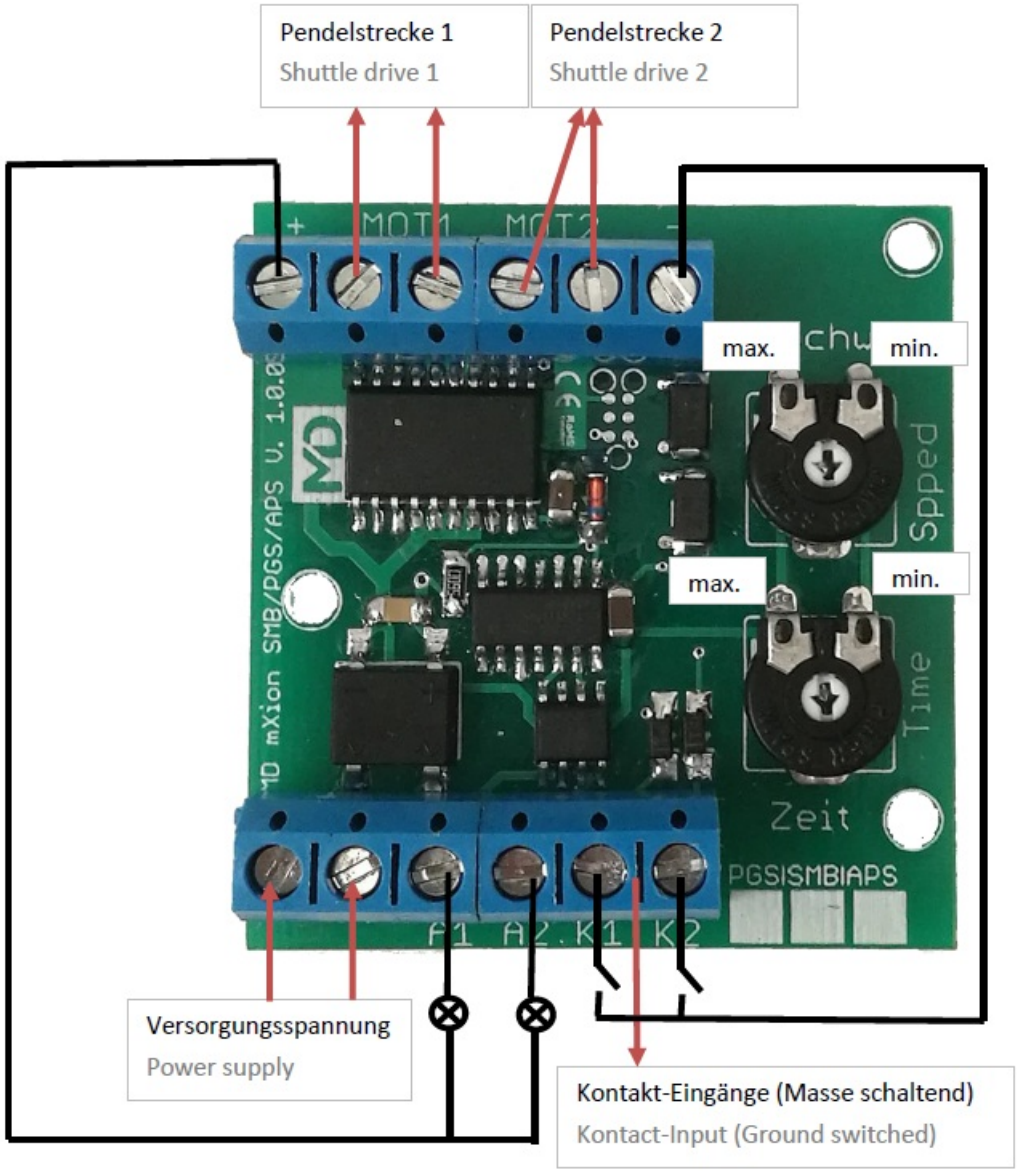
Scope of supply

- Manual
- mXion APS

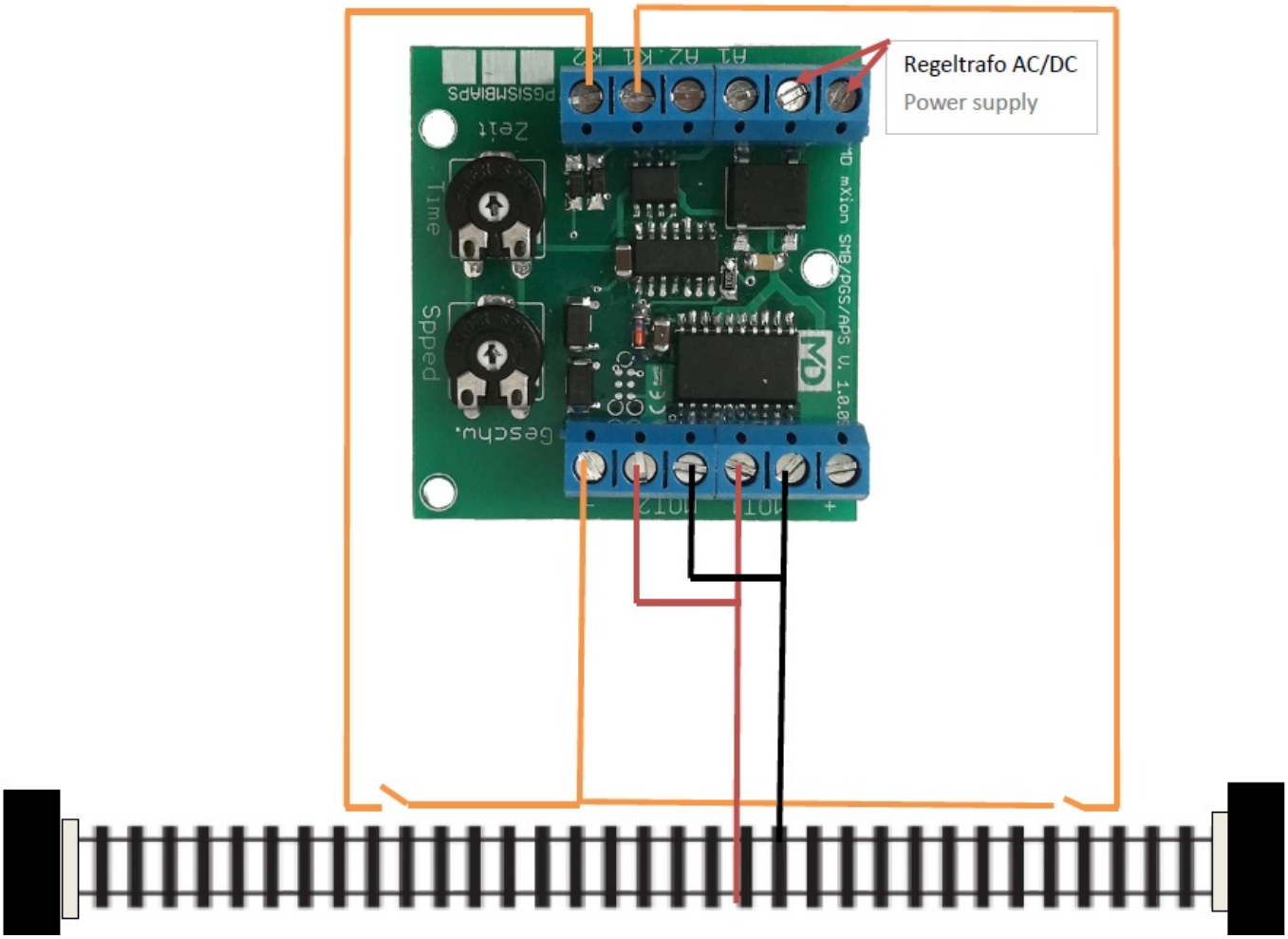
Hook-Up

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



Drive-Time over poti or contact inputs and drive speed will be set over the connected power supply. MOT1 and MOT2 connect together for 1 ch. with 2 Amps instead of 2 channels.
Optionally, you can use the contact inputs as limiter.



Product Description

The mXion analog pendulum control (APS) is a versatile module. In this case, corresponds to the connection diagram of the cabling on page 9 the purpose of an analog pendulum control with soft start and prototypical slowdown. This modern module is construction also without endpoint switches such as reed contacts as possible with conventional shuttle train controls. This eliminates the need for wiring the endpoints. However, the classic design is also included a limit switch possible, this can be useful if there are inclines or declines in the route so that the travel time is in both directions different from each other. In that case, turn the travel time to the max. getting as additional security on. The wiring is then carried out as shown on page 9 with K1 & K2. Set the driving speed at your existing control transformer, travel time, and hold time over the two adjust the rotary knobs (potentiometer). It is, speed" the travel time and the rotary knob with "time" is the hold time. Another advantage of this APS module is the possibility to be able to control two shuttle train routes. These are the connections MOT1 and MOT2 to be used. Any channel is designed for 1A. When more powerful loco. are on the line drive, connect MOT1 and MOT2 in parallel according to the circuit diagram to get 2A. But then it stands only one available.

Technical data

Power supply:

- 7-25V DC/DCC
- 5-18V AC

Current:

- 10mA (without functions)

Maximum function current:

- A1/A2 each 1A
- Mot1/Mot2 each 0,8A

Temperature range:

- -20 up to 80°C

Dimensions L*B*H (cm):

- 4.9*4.7*2

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.

Hotline

For technical support and schematics for application examples contact:

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

Documents / Resources

	**mXion APS Shuttle Train Control** [pdf] User Manual APS Shuttle Train Control, APS, Shuttle Train Control, Train Control, Control

References

- Top Fahrradbekleidung für Damen & Herren - Ride your Style
- micron-dynamics
- micron-dynamics