

### Connection cable (Output)

Wire cross-section	1.5mm <sup>2</sup> / AWG 18
Stripping length	10mm / 0.4"
Cable length	150mm / 5.91"
Temperature resistance	min. 80°C / 176°F for IEC, min. 75°C / 167°F for UL

### Power supply

Wire cross-section	0.75 ... 2.5mm <sup>2</sup> / AWG18 ... 13
Stripping length	5mm / 0.2"
Torque of terminal blocks	0.35 ... 0.4Nm / 0.26 ... 0.3 lbf ft
Temperature resistance	-40 ... 105°C / -40 ... 221°F

### Loxone Tree

Wire cross-section	0.25 ... 0.8mm <sup>2</sup> / AWG23 ... 18
Stripping length	5mm / 0.2"
Temperature resistance	-40 ... 105°C / -40 ... 221°F

### Installation & electrical connection

The installation of this device has to be carried out by a qualified person. The device has to be fitted in accordance with building regulations for electrical and fire safety. If the device is not installed according to manufacturers guidelines the protection of the device may be affected.

This folder is a part of the product!



For additional information, declaration of conformity, visit [loxone.com/help/nano-motor-controller-tree](https://loxone.com/help/nano-motor-controller-tree)

# LOXONE

# LOXONE

## Need Help?

[loxone.com/support](https://loxone.com/support)



# Nano Motor Controller Tree

Part No: 100473

Loxone Electronics GmbH  
Smart Home 1  
4154 Kollerschlag  
Austria

[loxone.com](https://loxone.com)



V061023

## About the product

The Nano Motor Controller Tree is a compact module with DC outputs, which is controlled via the Loxone Tree interface.

Through the configurable outputs, motors or LED lights can be connected in the following operating modes:

**Motor Bidirectional:** One output for DC motors including control of running direction and speed.

**Motor Unidirectional:** Two outputs for DC motors with speed control, no direction change possible.

**Dimmer:** One output for dimming low voltage LED lamps.

It can be used to control a variety of non-safety critical functions in your smart home. We recommend it is configured according to the Loxone Standard.

## Features

In Motor-Mode:

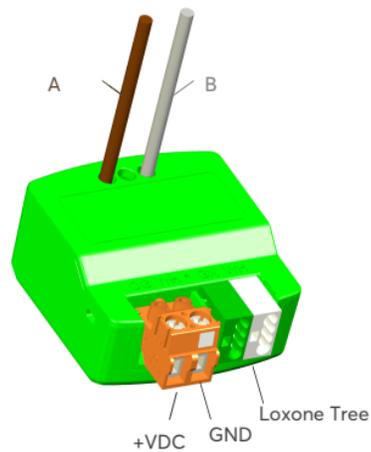
- Current Flow Detection (100-3500mA)
- Overcurrent Detection (100-3500mA)
- Control the speed by PWM (0-100%)

LED-Mode:

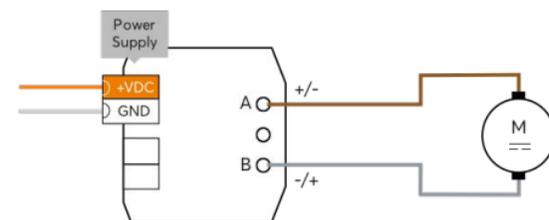
- 1 PWM output

## Technical Specifications

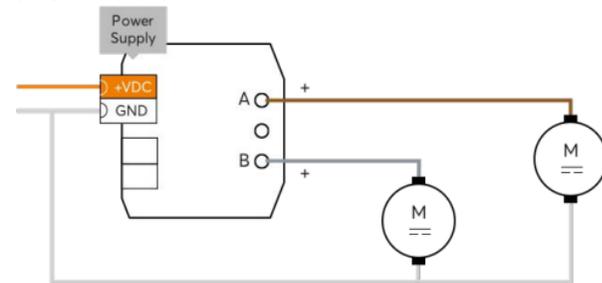
<b>Power supply</b>	9 ... 26VDC		
<b>Power consumption</b>	typ. 0.22W, max. 0.28W		
<b>Configuration</b>	<b>Motor Bidirectional 1 output</b>	<b>Motor Unidirectional 2 outputs</b>	<b>Dimmer 1 output</b>
<b>Maximum total load of outputs</b>	2.1A continuous; 5A peak (<30s)		max. 2.1A
<b>PWM Frequency</b>	1 ... 10kHz		400Hz
<b>Power loss at max. load</b>	5.8W		1.7W
<b>Current detection setting range</b>	100 ... 3500mA		-
<b>Overcurrent detection setting range</b>	100 ... 3500mA		-
<b>Interface</b>	Loxone Tree: connection with Miniserver / Tree Extension		
<b>Ambient temperature</b>	-20 ... 50°C / -4 ... 122°F		
<b>Humidity</b>	max. 95% r. H. (non condensing)		
<b>Safety rating</b>	IP20		
<b>Dimensions</b>	39.45x38.95x20.20mm / 1.55x1.53x0.80" (LxWxH)		
<b>Maintenance &amp; Cleaning</b>	This device is free of maintenance and may only be cleaned with a dry cloth.		



### Motor Bidirectional



### Motor Unidirectional



### Dimmer

