

Connection cable (Output)

Wire cross-section	1.5mm ² / 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 ² / 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 ² / 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

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loxone.com/support



Nano Motor Controller Tree

Part No: 100473

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VO30321

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:

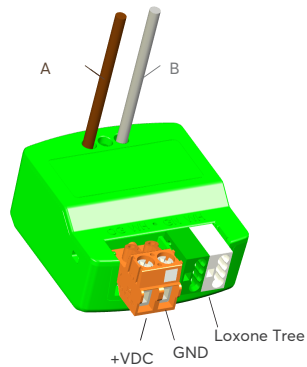
- Current Flow Detection (100-3500mA)
- Overcurrent Detection (100-3500mA)
- Control the speed by PWM (0-100%)

LED-Mode:

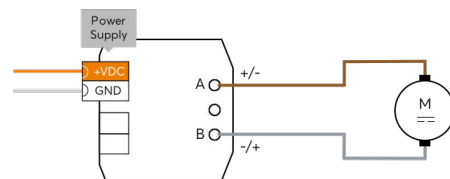
- 1 PWM output

Technical Specifications

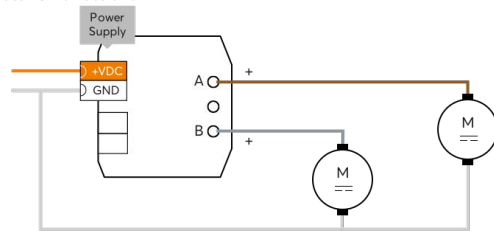
Power supply	9 ... 26VDC		
Power consumption	typ. 0.22W, max. 0.28W		
Configuration	Motor Bidirectional 1 output	Motor Unidirectional 2 outputs	Dimmer 1 output
Maximum total load of outputs	2.1A continuous; 3.5A peak (<30s)		max. 2.1A
PWM Frequency	1 ... 10kHz		400Hz
Power loss at max. load	5.8W		1.7W
Current detection setting range	100 ... 3500mA		-
Overcurrent detection setting range	100 ... 3500mA		-
Interface	Loxone Tree: connection with Miniserver / Tree Extension		
Ambient temperature	-20 ... 50°C / -4 ... 122°F		
Humidity	max. 95% r. H. (non condensing)		
Safety rating	IP20		
Dimensions	39.45x38.95x20.20mm / 1.55x1.53x0.80" (LxWxH)		
Maintenance & Cleaning	This device is free of maintenance and may only be cleaned with a dry cloth.		



Motor Bidirectional



Motor Unidirectional



Dimmer

