

Configuration

	Motor Bidirectional 1 output	Motor Unidirectional 2 outputs	Dimmer 1 output
Maximum Total Load of Outputs	2.1A continuous		max. 2.1A
PWM Frequency	1 ... 10 kHz		400 Hz
Power Loss at Max. Load	5.8 W		1.7 W
Current Detection Range	100 ... 3 500 mA		-
Overcurrent Detection Range	100 ... 3 500 mA		-

Ambient Conditions

Temperature	-20 ... 50 °C / -4 ... 122 °F
Humidity	max. 95 % RH (non-condensing)
Ingress Protection	IP20

 Safety Instructions

Installation must be carried out by a qualified electrician in accordance with applicable regulations, including electrical and fire safety requirements. If the device is not installed according to the manufacturer's guidelines, the protection provided by the device may be impaired. This device is maintenance-free and must only be cleaned with a dry cloth.



Loxone Electronics GmbH
Smart Home 1
4154 Kollerschlag
Austria

Loxone UK
The Forum
Station Road
Theale, RG7 4RA
United Kingdom

Loxone US
3060 Plaza Drive
Suite 105
Garnet Valley, PA 19060
United States



For additional information, declaration of conformity, visit www.loxone.com/datasheets

V180826



Need Help?
loxone.com/support

Nano Motor
Controller Air

Part No.: 100472

LOXONE

About the product

The LOXONE Nano Motor Controller Air is a compact module with DC outputs, controlled via the LOXONE Air radio technology.

Its configurable outputs enable the control of DC motors or LED lights in the following operating modes:

Motor Bidirectional: One output for DC motors with control of 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 lights.

It can be used to control various non-safety-critical functions in your smart home. We recommend configuring it according to the LOXONE Standard.

Minimum installation volume: 120 cm³ (e.g. d = 68 mm, h = 35 mm)

Features

Motor mode:

- Current Flow Detection (100 ... 3 500 mA)
- Overcurrent Detection (100 ... 3 500 mA)
- Speed control via PWM (0 ... 100 %)

LED mode:

- 1 PWM output

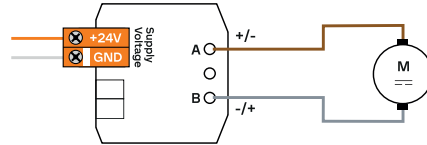
Electrical Specifications

Supply Voltage	9 ... 26 V DC
Power Consumption	typ. 0.22 W, max. 0.28 W

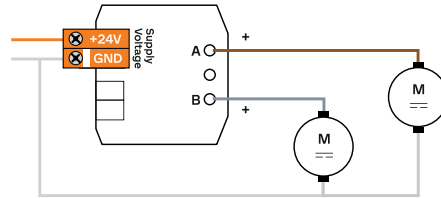
Interface

LOXONE Air	868 MHz (SRD Band Europe), 4 channels, max. 15.1 mW e.r.p. 915 MHz (ISM Band Region 2), 10 channels, max. 13.2 mW internal antenna
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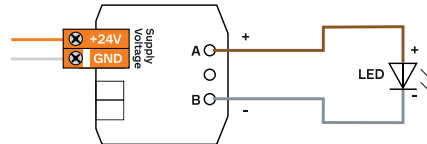
Motor Bidirectional



Motor Unidirectional



Dimmer



24 V DC Terminals

Wire cross-section	0.75 ... 2.5 mm ² / AWG 18 ... 13
Stripping length	5 mm / 0.2"
Tightening torque	0.35 ... 0.4 N·m / 0.26 ... 0.3 lb·ft
Temperature resistance	-40 ... 105 °C / -40 ... 221 °F
Conductor type	copper / aluminium

Connecting Cable

Wire cross-section	1 mm ² / AWG 18
Stripping length	10 mm / 0.4"
Temperature resistance	min. 80 °C / 176 °F for IEC, min. 75 °C / 167 °F for UL
Length	150 mm / 5.91"

Information

Contains FCC ID: 2ARRV-000375

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.