

## Lonbox® PSD5044

### Motor Controller for 2 sunblind or window motors

# INTELLIGENT BUILDING CONTROL

**Next generation intelligent building automation controller for energy efficient buildings. The pre-programmed controller has build-in functionality for 2 motors.**

One single device that integrates intelligent automation for a highly energy efficient building into one box. Ready to install and can be delivered directly to the construction site.

This device is designed for use as stand-alone or as part of large building automation systems. The pre-programmed controller contains functionality for indoor or outdoor sunblind control with advanced features for automatic control according to sunlight, sun position, wind and other alarm functions. The controller can receive override and schedule command via the building network.

Both channels have individual configuration of automatic functions, e.g. local hold time, light and wind levels etc.

Input and output connections:

- 230 V ac power supply input
- 4 Digital inputs for up / down switches
- 2\*2 Relay outputs for motor

Program Features

- Sunblind controller with additional features for windows
- Sunblind actuators with optional venetian blind slat control
- Scenarios and advanced override types

Latest generation LonWorks 2.0 features. No credits in LonMaker/LNS.

Self installing features allow for plug-and-play installation based on ISI protocol. When shipped the device has basic features already configured. Automatic change to managed installation by support of standard ISI features.

For ease of access during configuration and service an extra network connection is located in the box (3.5 mm mini jack)

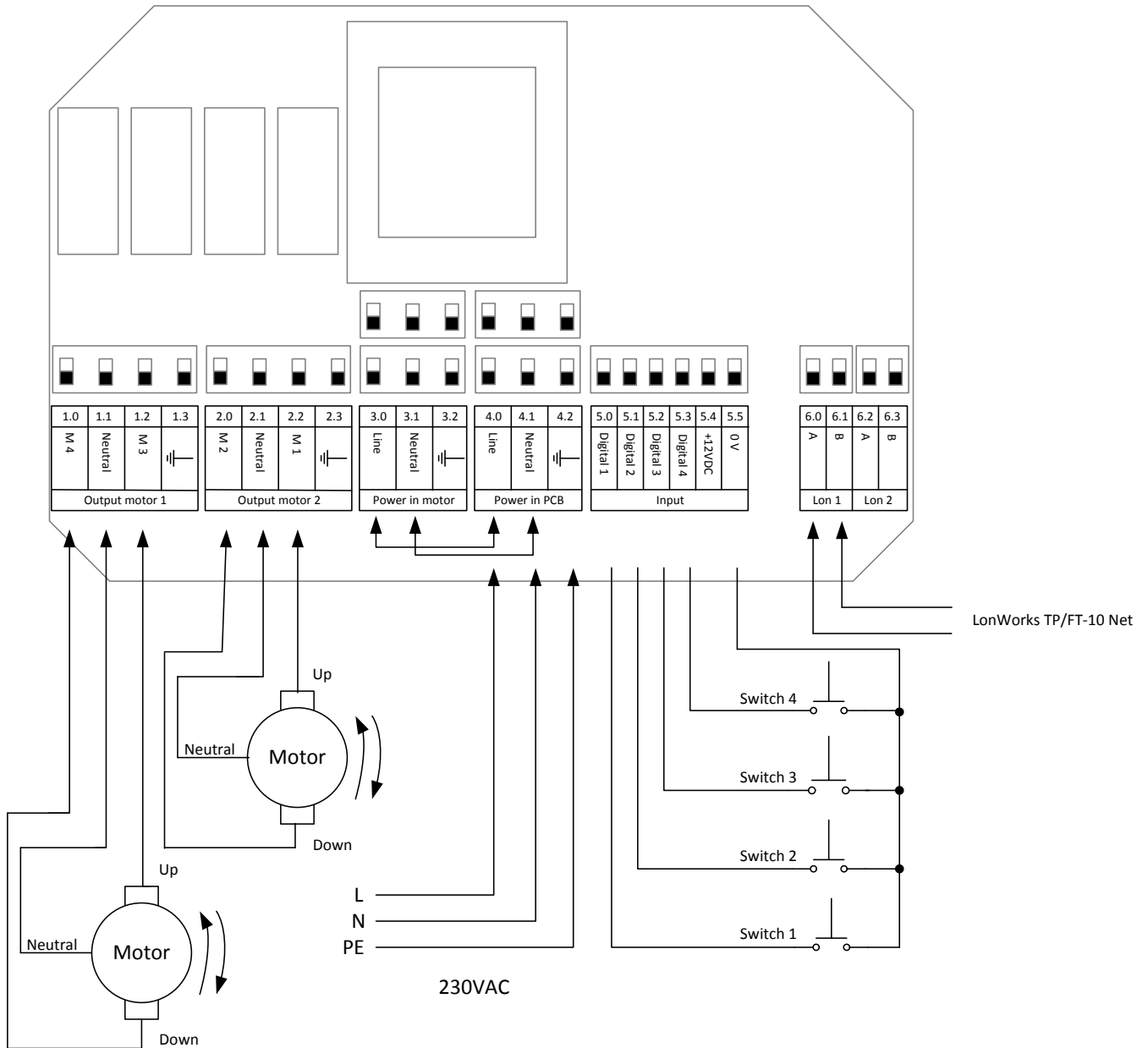
Delivered in plastic enclosure ready to mount..



## Technical Data

Group	Name	Detail
General	Description	2-Channel motor controller
	Dimensions	180 x 180 x 60 mm
	Enclosure material	ABS
	EMC Immunity	61000-6-3
	EMC Emission	61000-6-2
	RoHS, WEEE	Yes
Power	Supply input	230 Volt AC @ 50 HZ ±10%
	Controller supply	< 1 Watt
	Maximum supply output	24 Volt DC maximum 0.1 A for sensors
Communications	LonWorks	TP/FT-10 78 kit twisted pair, bus or free topology
Sensor Supply	Output voltage	24 Volt dc
	Output current max.	0.1 A
Inputs	Digital inputs	4
	Digital input voltage	24 Volt dc, 10 Kohm pull-up
	Digital Input impedance	72 k ohm
Outputs	Digital relay outputs	4 (in pairs of two)
	Digital output effect	Maximum 4 A pr. output
	Relay protection	Relay protection and noise reduction by RC 110 ohm 100 nF
	Relay technical data	IEC 61810, 16A, 250VAC, cosφ=1, 85°C, breaking capacity max. 4000VA
Ordering	Model name	Lonbox PSD5044
	GTIN / EAN code	5711536000369

## Connection Diagram Example



## Internal Principle Diagram

The internal principle diagram show the internal connections related to the motor power and output terminals.

The two sides are identical but allow for the use of two different power supplies for the window or sunblind motors.

Because of the RC noise circuit, the Neutral for the motors should always be connected.

