

## Lonbox® PSD6044

### 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. Supported protocols

- LonTalk TP/FT-10
- LonTalk/IP-FT
- BACnet/IP-FT
- BACnet MS/TP

The free topology IP Channel support DHCP, SMTP, IPMG and BACnet /IP and LonTalk/IP. BACnet and LonTalk can be used simultaneously.

Self installing features allow for plug-and-play installation based on ISI protocol. When shipped the device has basic features already configured.

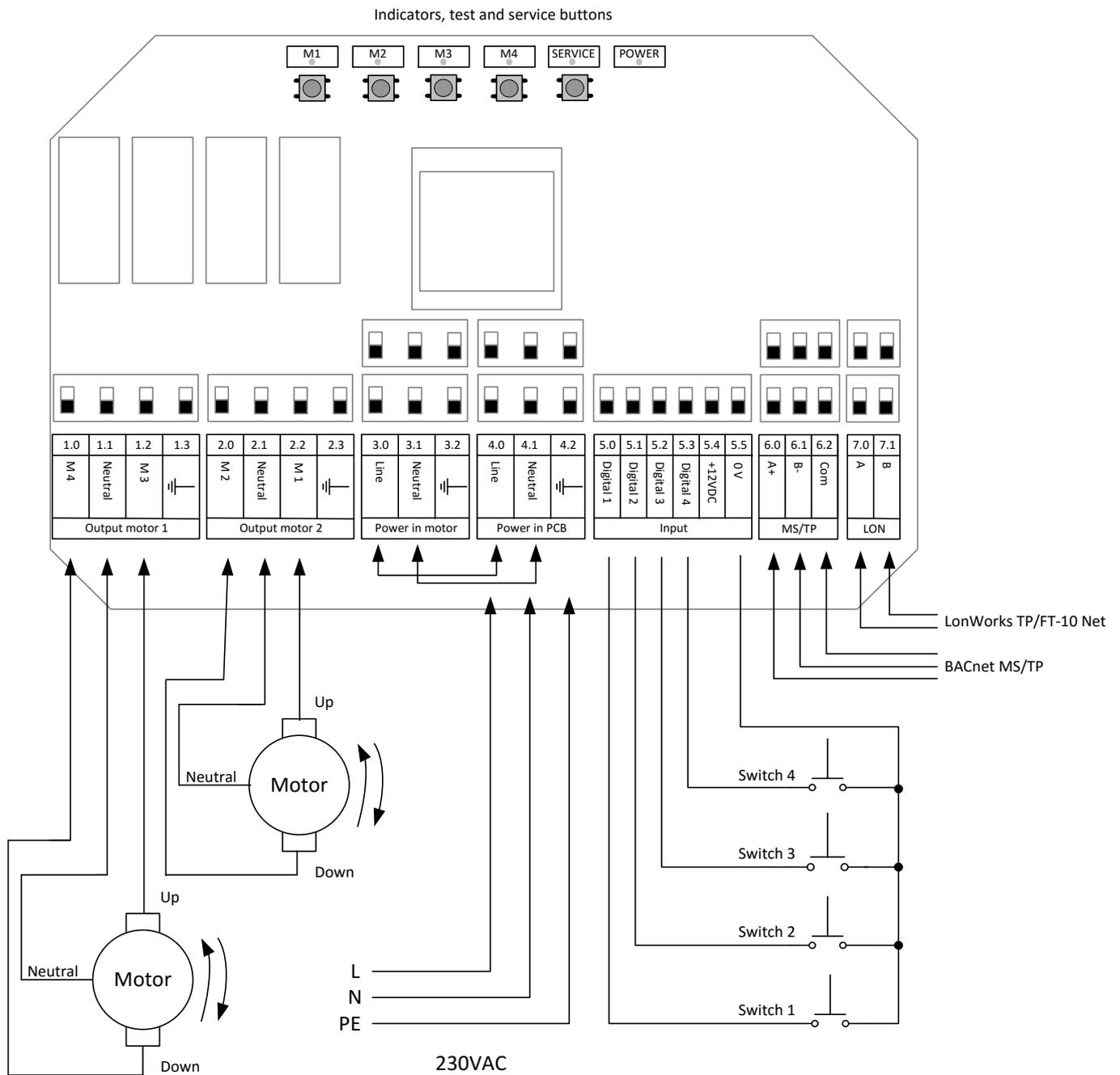
Delivered in plastic enclosure ready to mount..



## Technical Data

| Group                    | Name                    | Detail  |
|--------------------------|-------------------------|---|
| 5711536000604<br>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                                  |
| LON-bus                  | LonWorks                | TP/FT-10 78 kit twisted pair, bus or free topology with IzoT protocol |
| MS/TP-bus                | BACnet                  | RS485 twisted pair with MS/TP protocol                                |
| Communication            | Protocols               | LonTalk TP/FT-10 native free topology                                 |
|                          |                         | LonTalk/IP-FT requires IzoT router to IP channel/Ethernet             |
|                          |                         | BACnet/IP-FT requires IzoT router to IP channel/Ethernet              |
|                          |                         | BACnet MS/TP native RS485 token passing, default 38400 baud           |
| Inputs                   | Digital inputs          | 8   |
|                          | 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 PSD6044  |
|                          | GTIN / EAN code         | 5711536000604   |

## 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.

