

Lonbox® PSD6048

Motor Controller for 4 sunblind or window 24 V motors

INTELLIGENT BUILDING CONTROL

Next generation intelligent building automation controller for energy efficient buildings. The pre-programmed controller has build-in functionality for 4 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. Including a high efficiency 100W digital power supply.

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.

All 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
- 8 Digital inputs for up / down switches
- 4 DC driver outputs with protection for motors
- LON and BACnet MS/TP bus connection

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
General	Description	4-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	< 0.9 Watt at 230 Vac, including supply loss
	Maximum supply output	24 Volt DC maximum 4.0 A for motors
	Supply Efficiency	> 90%
LON-bus	LonWorks	TP/FT-10 78 kit twisted pair, bus or free topology with IzoT protocol
MS/TP bus	Output voltage	RS485 twisted pair with MS/TP protocol
Inputs	Digital inputs	8
	Digital input voltage	24 Volt dc, 10 Kohm pull-up
	Digital Input impedance	72 k ohm
Outputs	H-Bridge motor drivers	4
	Digital output effect	Maximum 1 A* pr. output (total 4.0 A)
Ordering	Model name	Lonbox PSD6048
	GTIN / EAN code	5711536000598

*) The H-Bridge motor driver outputs are designed for connection directly to a DC motor. The driver has protection against undervoltage, overtemperature and overcurrent. The motor driver employs fixed-frequency PWM current regulation (also called current chopping). When a winding is activated, the current through it rises until it reaches a threshold, then the current is switched off until the next PWM period (fixed at 50 kHz). The current threshold is 1.5 A.

Connection Diagram Example

