Lonbox® PSW50XX

Switch Interface Modules

INTELLIGENT BUILDING CONTROL

Next generation intelligent building automation device for energy efficient buildings. The pre-programmed switch interface has build-in functionality for 2-6 digital switches and up to 4 outputs drivers for light indicators..

This small interface device is designed for use with a low voltage switch module. The PSW50XX should be combined with a switch module that includes low voltage switches and optional LED indicators. The device makes it possible to connect up to 6 switches and up to 4 LED indicators depending on model to a LonWorks local operating network installation.

The device is very compact and designed to be placed behind the switch module when mounted in or on a wall.

The pre-programmed software contains a large number of features for different control situations. These include normal features for light, sunblind and scenario control.

Each input can be configured to operate a separate light group or all inputs can operate the same light group with different actions. The inputs can be configured for use with SNVT_switch and SNVT_setting signals and with an number of different functions depending on configuration parameters. The software contains enough functions to operate lamp or sunblind actuators directly or can operate as manual override of a controller function.

Program Features

- Switch function
- Scene panel function
- Scene controller function

All software features are compliant with current LonMark standards.

In addition to the wires for connecting switches and indicators, the PSW50XX device has two wires for TP/FT-10 network communication and two wires for connection of an external 24Vdc power supply. Only the communication and power wires should be run away from the device. The PSW50XX should be combined with the switch interface into one unit, I/O is not designed to be wired away from the device.
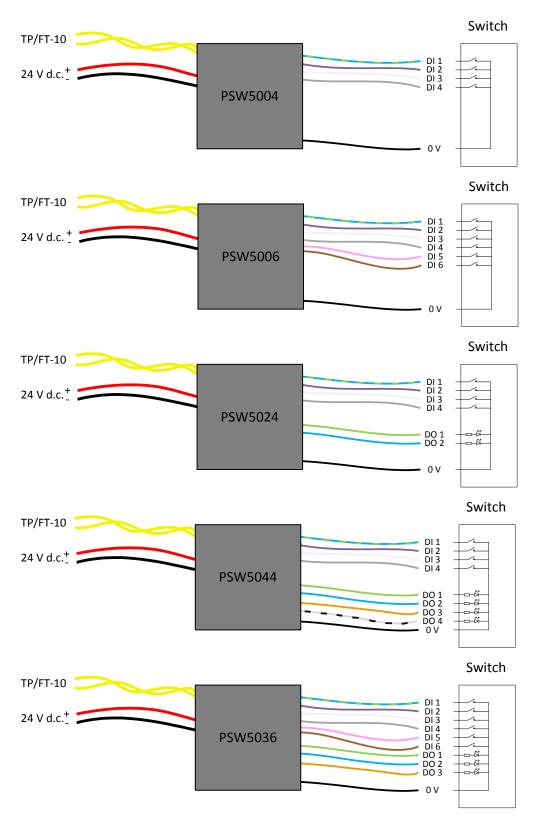
Technical Data

Group	Name	Detail
General	Description	Switch Interface
	Dimensions	32 x 35 x 15 mm IP 20
	Operating temperature	-10 ... 55 C
	EMC Immunity	61000-6-3
	EMC Emission	61000-6-2
	RoHS, WEEE	Yes
Power	Supply input	24 Volt DC (models without output 12...24 V DC) Typical 15 mA @ 24 V DC Maximum 25 mA @ 24 V DC
Communications	LonWorks 2.0	TP/FT-10 78 kit twisted pair, bus or free topology
	Connection bus and supply	4 * 0.33
	Connectors for switch	5...11 * 0.33
Local Inputs	Digital inputs	2...6
	Digital input voltage	3.3 Volt
	Digital Input impedance	10 k ohm
Local Outputs	Digital outputs	0..4
	Digital output voltage	24 Volt DC
	Digital output effect	Maximum 10 mA or 0.25 Watt
Ordering	Model name	Lonbox PSW5004 Lonbox PSW5006 Lonbox PSW5024 Lonbox PSW5036 Lonbox PSW5044
	GTIN / EAN code	5711536000383 (PSW5004) 5711536000390 (PSW5006) 5711536000406 (PSW5024) 5711536000413 (PSW5036) 5711536000420 (PSW5044)

Mounting Instruction

The interface device is designed to be build directly together with a low voltage switch and LED indicator module. The input wires must not be extedended and the inputs and outputs should only be connected to switches or LED's as shown below.

OBS: Activating switch 1&2 (DI1 + DI2) simultaneously will transmit a **service-pin message** to the network.