

LITROL™

Programmable Switch Module

For integrated operation of lighting ;
with LONMARK Association-Certified device



- 4-channel programmable switch module
- Indicating LED for status of the switch
- Flush mounting in an American standard electrical wall box
- LONMARK Association-Certified device
- Power supply via the two-wire bus (LONWORKS Network, LPT-10)

Application

The PSM-ATS is a touch switch only for on/off lighting control applications. Group and Scene functions provide versatile way for the lighting applications.

Technical data

Power requirements	PSM-ATS receives its power via the LONWORKS Network In accordance with specification LPT-10	3 LPUL(Unit Load)
Functions	Selectable switch input channel LED status indicator	On(RED), Off(GREEN), Off delay timer running(ORANGE)
Interfaces	Interface type Transceiver Baud rate	LON (LONMARK) LPT-10 78 kBit/s
Cable connection	Terminals LONWORKS Network (Polarity insensitive)	Screw terminals 2-wire twisted pair 0.2 ~ 1.0 mm ²
Hardware	Processor type Processor clock Memory	TMPN3120FE3M 5MHz 20KB(18K ROM, 2K RAM)
Industry standards	CE conformity to EMC directive Emission Immunity LONMARK conformance	89/336/EEC EN 55011 EN 50082-2 Guidelines Version 3.2

LonWorks® Interoperability

LONMARK ® Version 3.2 interoperability

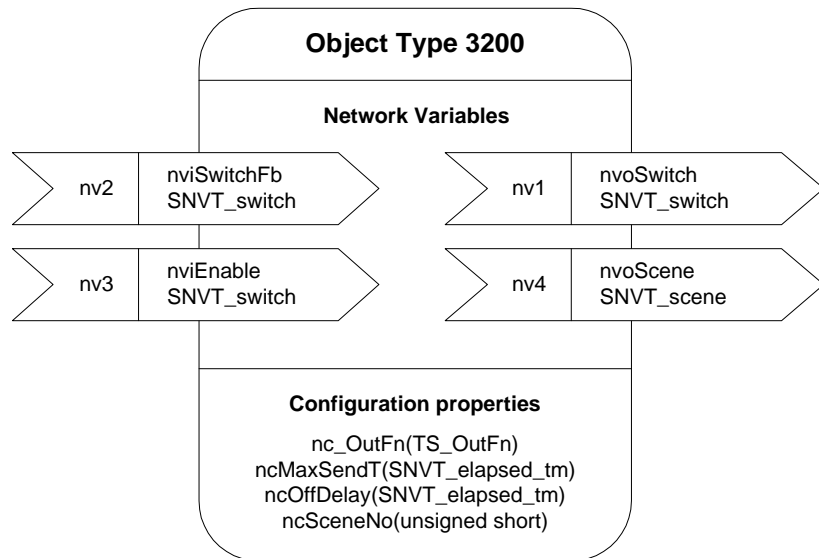
Standard program ID	80:00:72:20:00:06:04:00
External Interface File	PSMATS_xx.XIF
Plug-In Software	PSMATS_xx.EXE

Objects

Object #0	
Node object	Status request support: RQ_NORMAL for each Object Configuration variables for Location String
Object #1 to #4	
Switch object	Functional profile 3200 version 1.0 SNVT_switch and SNVT_scene for output and feedback input Configuration properties for output value and output function

Object #1 to #4

Switch (SW1, SW2, SW3, SW4)



Network Variables

nvoSwitch	Switch output. Includes state On/Off
nvoScene	Scene output. RECALL with associated scene number
nviSwitchFb	Switch feedback input. If the value is 50(mixed state), the value of nvoSwitch is changed to 50.0, but the state is not changed. If the value is 40(Priority), nvoSwitch is not changed.
nviEnable	Object function On/Off. When nviEnable is Off state, the nvoSwitch maintains it's current value regardless of the switch input

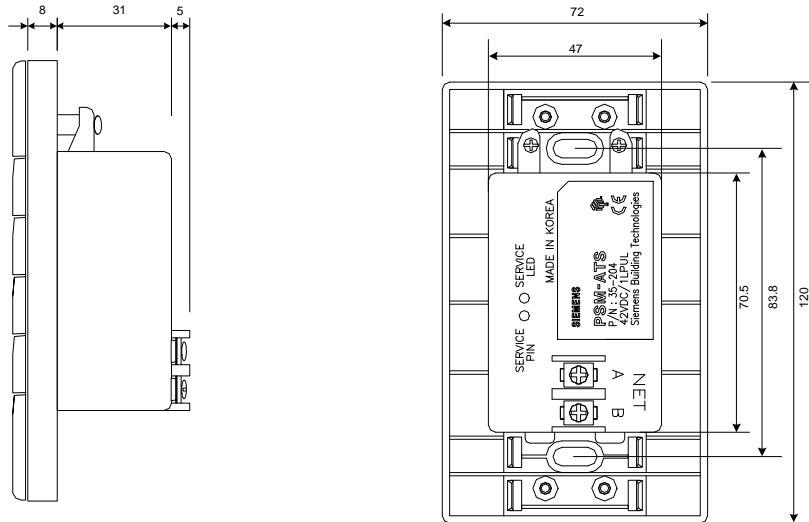
Configuration Properties

ncOutFn	<p>Selects an output function</p> <p>DEFAULT - Toggle function. Single click for the On/Off function of the nvoSwitch. Off Delay Timer is available</p> <p>MOMENTARY - nvoSwitch maintained On state while the button is pressed. Off delay Timer is available</p> <p>SCENE - Propagate the scene number which associated the functional block. Heart beat timer is not available</p>
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ncMaxSendT	Time between subsequent updates. Range 0min 0sec ~ 59min 59sec. Default = 0 sec
ncOffDelay	Off delay time before output changes, when digital input contact goes open. Default = 0sec
ncSceneNo	Used to set the number of the scene for the functional block

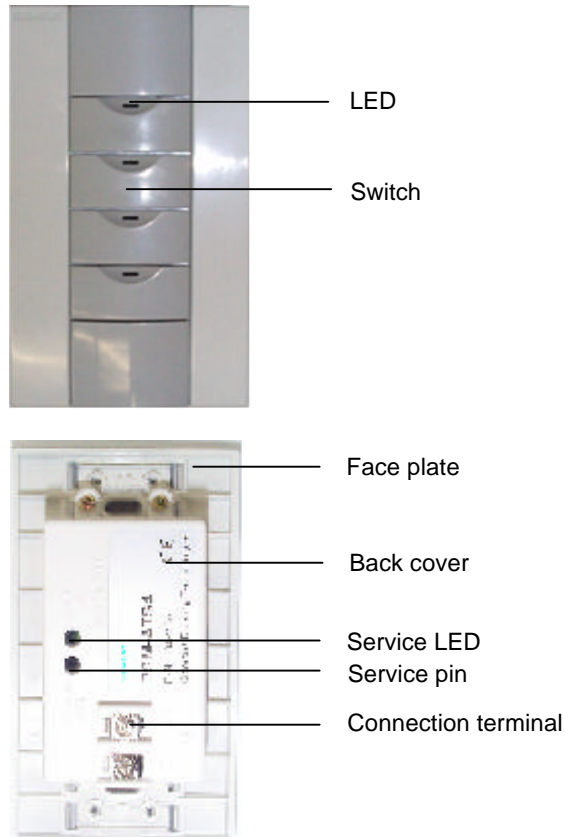
Dimensions

All dimensions in mm



Mechanical design

The PSM-ATS comprises a back cover, a face plate and touch switches. The device also has a service Pin/LED, status Indicating LEDs and connection terminals for NET A/B.



Service LED

This LED shows the overall status of the LonWorks device. When the device application is not configured, this LED flashes green and off. When the device application is configured, the LED goes off.

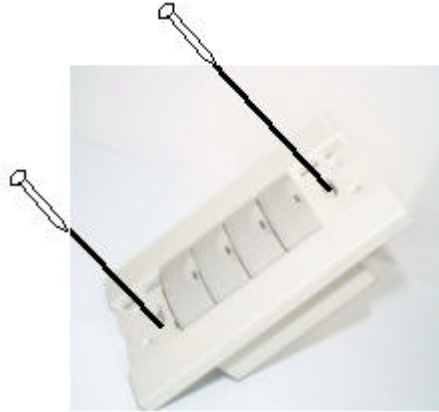
Service pin

The service pin is used to identify the device at commissioning. When the service pin is pressed, program ID and LonWorks Unique ID (Neuron ID) contained in the device are transmitted to the commissioning or service tools.

Mounting notes

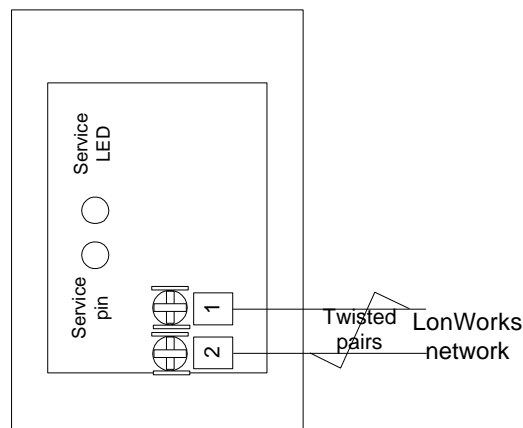
The device can be mounted in orientation and fixed as follows:

Two drill holes are provided for screw-mounting.



Connection terminals

You have to only connect a LonWorks network cable to connection terminal.



Installation instructions

1. Mount the PSM-ATS in the required location by firmly fixing to the wall with a minimum of two screws. (See mounting notes)
2. Connect the cable as per connection terminals. (See connection terminals)
3. Once the connections are completed, you must commission the device using LonWorks commissioning tool. (like as Echelon's LonMaker for Windows or SBT's Robust Manager)
4. Once the device is successfully added in the LonWorks network, you have to check the following.
"All status indicating LEDs are indicated by 5 flashes by **Wink** command."
5. If you want to set unconfigured state of the device, press the "Service pin" during 10 second.

note : The size of paper for labeling knob is 35*9 mm.

Reference

Indicating LED for status

Status	DEFAULT	MOMENTARY	SCENE
ON	RED	RED	X
OFF	GREEN	GREEN	X
Off delay	ORANGE	ORANGE	X
RECALL	X	X	*note

*note : LED goes RED during 1 second

Ordering information

Model	Description	P/N	Remark
PSM-ATS1	Programmable Switch Module, American Standard, 1 Touch Knob for Switching, for LonMark	35-201	
PSM-ATS2	Programmable Switch Module, American Standard, 2 Touch Knob for Switching, for LonMark	35-202	
PSM-ATS3	Programmable Switch Module, American Standard, 3 Touch Knob for Switching, for LonMark	35-203	
PSM-ATS4	Programmable Switch Module, American Standard, 4 Touch Knob for Switching, for LonMark	35-204	
PSM-ATS1L	Programmable Switch Module, American Standard, 1 Labeling Touch Knob for Switching, for LonMark	35-301	
PSM-ATS2L	Programmable Switch Module, American Standard, 2 Labeling Touch Knob for Switching, for LonMark	35-302	
PSM-ATS3L	Programmable Switch Module, American Standard, 3 Labeling Touch Knob for Switching, for LonMark	35-303	
PSM-ATS4L	Programmable Switch Module, American Standard, 4 Labeling Touch Knob for Switching, for LonMark	35-304	

Accessories

Touch knob	Touch knob for Switching	3342301-013	
Labeling knob	Labeling knob for Switching	Reserved	
Knob window	Labeling knob window	Reserved	
Upper Cvr	Upper cover for PSM-ATS4 (same as Lower Cover)	3342001-012	
Lower Cvr1	Lower cover for PSM-ATS1	3342001-015	
Lower Cvr2	Lower cover for PSM-ATS2	3342001-016	
Lower Cvr3	Lower cover for PSM-ATS3	3342001-017	
Lower Cvr4	Lower cover for PSM-ATS4 (same as Upper Cover)	3342001-012	
Face plate	Face plate for PSM-ATS1,2,3,4	3342301-010	

*note : The minimum ordering quantity is 50pcs for Accessories.