

Power-Line Remote Switch Module

(It can communicate on the AC 100V~230V Line)

NC-PLCS3 Ver 7.0

Related Products : NC-EPLC (Power-Line Evaluation Unit)



1. Power-Line Remote Switch Module (Max 3-Channel).

- * This is a module for 3-Channel Remote Control Switch receiving/transmitting through Power-line (AC100V~230V) with Plug Socket at home.
- * Power line Remote Control Switch can replace wired/wireless communication disabled as above. It can serve for smooth Control Switch for the user.
- * At present, power line Remote Control Switch is widely used for home automation. It is installable without changing existing building structure, and doesn't require any extra wiring work, so the cost is saved and doesn't disturb your work at home or in the office/factory, letting you avail yourself of the immediate Control.

2. Features.

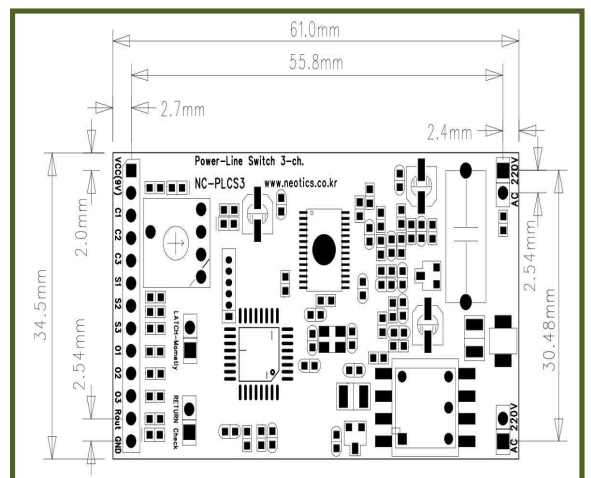
- . Additional wiring work not required, unlike wired communication.
- . Cost/time for wiring work saved.
- . Using different transmit frequencies, you get less cross, separate or multi-communication.
- . Useful for development/production of automatic control system within the building.

3. Applications.

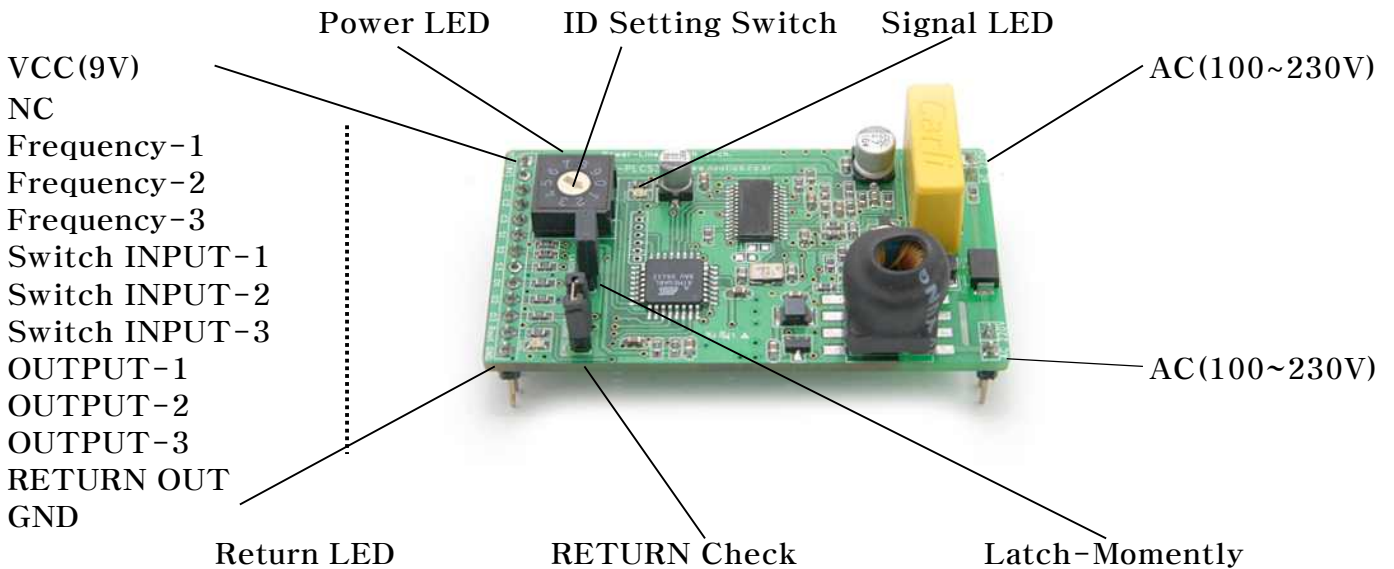
- . Wireless Remote Control Switch (Power-Line Controller) ,
- . Broad Information Data & Control Signal System for School, Building,
- . Wireless Data & Control System.

4. Power-Line Remote Switch Module (Max 3-Channel) Specification and Size .

Item	Specification
Operating Voltage	DC 9V
Operating Current	TX, RX : Under 70mA
Channel Frequencies	8 - Channels (60,66,72,76,82,86,110,132khz)
Speed	1200bps
Output Signal	TTL Level(DC 5V)
ID Set	9 - Set ("0"~"9"), 1 Open ("0")
Control Switches	3



5. Power-Line Remote Switch Module (Max 3-Channel) Pin Description.



- * VCC(9V) : Input Power DC 9V (+).
(It is better analog-type(trans-type) power supply than switching-type power supply.)
- * NC : No connection.
- * Frequency-1,2,3 : Set Transmit Frequency(connect to GND).

C1, C2, C3	C1, C2, C3	C1, C2, C3	C1, C2, C3
H, H, H : 60KHz	H, H, L : 66KHz	H, L, H : 72KHz	H, L, L : 76KHz
L, H, H : 82.05KHz	L, H, L : 86KHz	L, L, H : 110KHz	L, L, L : 132.5KHz
- * ID setting : ID Set (0~9).
("1" ~ "9" : Control to Same numbered ID only.),
("0" : Control to all IDs .)
- * RETURN Check : Jumper to confirm the receiver operation after controlling from the transmitter. (Function for the transmitter only)
Jumper in use : Return Check Enable.
Jumper not in use : Return Check Disabled.
- * Latch-Momently : Output Control Type Set-Jumper (Receiver Only).
Momently(Jumper in) : Output "H" when the switch is turned on from the transmitter.
Latch(Jumper not in) : Repeat "H" and "L" every time the switch is turned on from the transmitter.
- * RETURN OUT : Transmitter / Receiver control confirmation
"H" : Receiving signal. (Use RETURN Check Jumper Only)
"L" : RETURN Check unset, or no receiving signal.

- * Switch INPUT-1,2,3 : Set the switch you want to control-On/Off by connecting to GND.
 e.g.) Connect INPUT-1 to GND : "H" on the Receiver OUTPUT-1.
 e.g.) Connect INPUT-1, 3 to GND: "H" on the Receiver OUTPUT-1, 3.
- * OUTPUT-1,2,3 : "H" on the Receiver OUTPUT Pin equivalent to the switch.
 e.g.) Connect INPUT-2 to GND : "H" on the receiver OUTPUT -2.
 Reference) output differs depending on Latch-Moment setting.
- * GND : Input Power DC 9V (-)
- * Power-LED : LED for power On/off Display
- * Signal-LED : LED for operation confirmation Display.
- * Return LED : LED for return check Display.
- * AC (100~230V) : AC 100~230V Connection Terminal.

**** Be Cautions of the high voltage.****



****** Caution******

1. Check the features first to connect with other equipment.
 2. This circuit is strictly tested.
 3. The developer, manufacturer or dealer is not responsible for any malfunctioning/damage caused by connection with other equipment.
 4. Appropriate permit /approval is required for some products utilizing this module, depending on functions and usages.
- For more information and inquiry, please refer to the sites below.

**R&D : <http://www.neotics.co.kr>
 Sales : <http://www.logiccamp.co.kr>**

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