

1 Applications

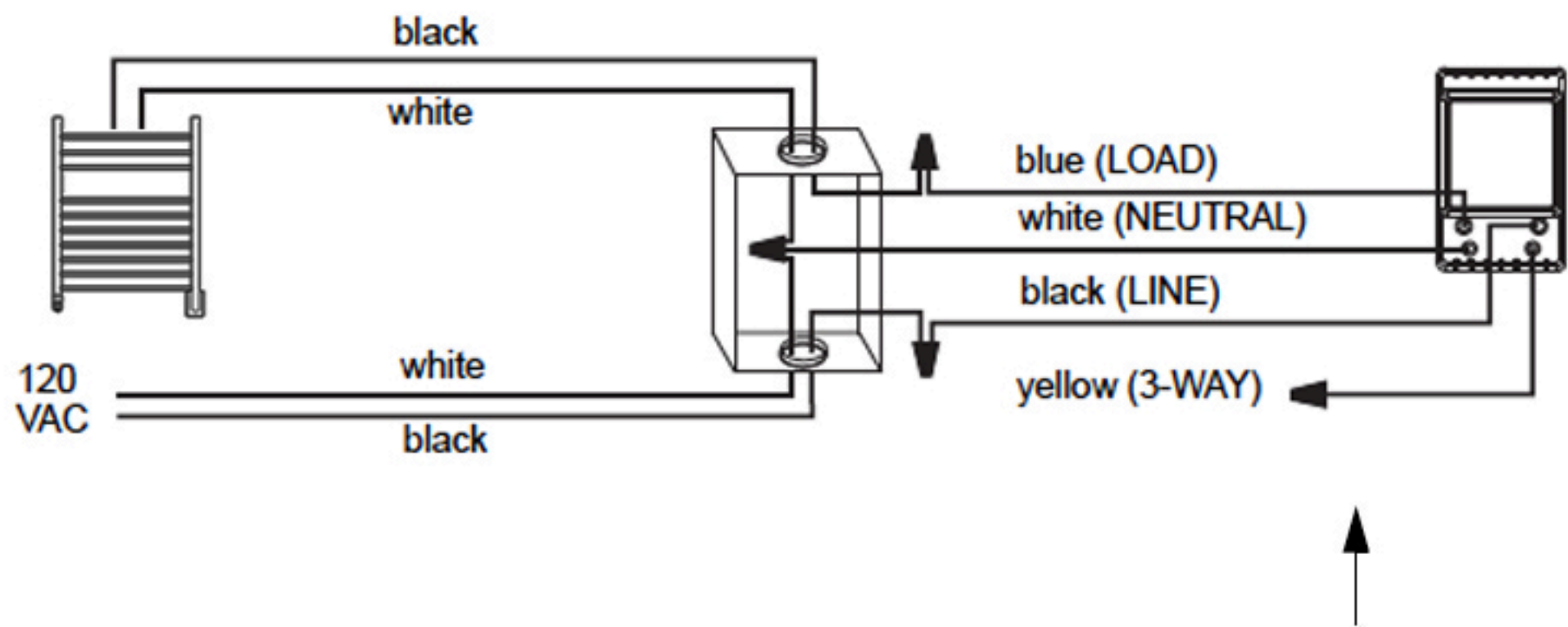
The PLS750C/PLS751C programmable wall switch has been designed to control lights and motors:

Load types	Maximum load	Examples
Lights and resistive loads (except tungsten)	1800 W (15 A @ 120 V)	- fluorescent lights - compact fluorescent lights (CFL) - electronic ballasts - sodium lamps - block heaters
Tungsten lights	1440 W (12 A @ 120 V)	- incandescent lights - halogen lights
Motors	1 hp	- pool filter pumps - fans

2 Installation

- 1 Cut power at the circuit breaker to avoid electric shock.
- 2 Remove the existing switch.
- 3 Install the new switch (see the appropriate section below).
- 4 Apply power at the circuit breaker.

SINGLE-SWITCH INSTALLATION



NOTE: Isolate the yellow 3-WAY wire from the other wires using a solderless connector.

3 Quick Start-up

Set the time and date before using the timer for the first time.

The switch will turn the lights on at sunset and turn them off at 11:00 pm by default. If these settings are appropriate for you, you only need to set the time and date (see shaded zone in the menu flowchart sheet). If the switch's sunset time does not correspond to the actual sunset time, see sections 5.3.3 and 5.3.4.

4 Operation

Indicates the mode of operation (see Section 5.1)

Indicates the keypad is locked (see Section 6)

Indicates the time and day

Indicates the current program

Briefly press this button to turn the lights on or off. See "Temporary Override" in Section 5.1.4.
Press for 3 seconds to enter the setup menus.

The D icon indicates the current program has been activated at sunset.

The ⚙ icon indicates the current program has been activated at sunrise.

Indicates the load on/off state

Press this button to display today's sunrise time.

Press this button to display today's sunset time.

The LED illuminates when the load state is on.

5 Setup Menus

Press the main button for 3 seconds to enter the setup menus. Refer to the menu flowchart sheet on how to navigate the menus.

5.1 Mode Menu

You can use the Mode menu to select one of the three modes of operation (see sections 5.1.1 to 5.1.3).

5.1.1 Manual Mode

In Manual mode, the switch operates like a regular switch. To turn the lights on or off, briefly press the main button. The ⚡ icon appears when the switch is in Manual mode.



5.1.2 Automatic Mode

In Automatic mode, the switch turns the lights on or off according to the set programs (see Section 5.4). The ⌚ icon as well as the current program number are displayed.



5.1.3 Random Mode

In Random mode, the switch has no specific times to turn the lights on or off. This mode is designed to give the impression the house is occupied during your absence. It is similar to the Automatic mode except there is no fixed program. The programs are automatically set to different times by the switch every day. The 🗓 icon appears when the switch is in Random mode. The first "On" program occurs at sunset. Each "On" program lasts between 1 hour and 1 hour and 30 minutes; each "Off" program lasts between 15 and 30 minutes. The last "Off" program occurs between 10:30 pm and midnight.



5.1.4 Temporary Override

When the switch is in Automatic or Random mode, you can press the main button at any time to override the default state for the current program. The lights will turn off if they are on and vice versa. The icon (On or Off) of the new state flashes to indicate that the state is temporary. The new state is maintained until you press the main button again or till the next "On" or "Off" program.

5.2 Time Menu

The time display flashes on the screen when the time has not yet been set or after a 4-hour power outage. Use the Time menu to select the time format (12-hour or 24-hour) and to set the clock and date.
NOTE: The date is used to determine the sunset and sunrise times.

5.3 Configuration Menu (Conf)

Use the Configuration menu to set the following parameters (see sections 5.3.1 to 5.3.4).

5.3.1 Backlight mode (SCRN)

The screen is lit at high intensity for 8 seconds when you press any button. The rest of the time, depending on the backlight mode selected, the screen behaves as follows:

- Scrn Off: The screen is not lit.
- Scrn On HI: The screen is lit at high intensity.
- Scrn On LO: The screen is lit at low intensity (default mode).

5.3.2 Automatic Daylight Savings Time Changeover (DLS)

When automatic daylight savings time changeover is on (DLS On), the PLS750C/PLS751C changes to daylight savings time (summer time) at 2:00 am on the second Sunday of March and changes back to normal time (winter time) at 2:00 am on the first Sunday of November. This function is enabled (DLS On) by default.

5.3.3 Latitude and Longitude Coordinates (LAT and LONG)

The coordinates are used to turn the lights on at sunset and off at sunrise. The latitude is set to +45 and longitude to -75 by default. These settings provide approximate sunset and sunrise times for most North American cities. To obtain your city's coordinates (or those of a nearby city), see the coordinates table. You can also obtain this information at www.geonames.org or with a Global Positioning System (GPS) device. The accuracy of the sunset and sunrise times depends on the accuracy of the coordinates you enter for your city.

NOTE: Enter a negative value for a south latitude or a west longitude.

5.3.4 Correction Factor (ADJ)

If your city's time zone is based on political or economic boundaries instead of its coordinates, your lights might switch on or off too early or too late with respect to sunrise and sunset. In this case, apply a correction factor (+1 or -1 hour; refer to addendum). Otherwise, leave it at 0 (default value).

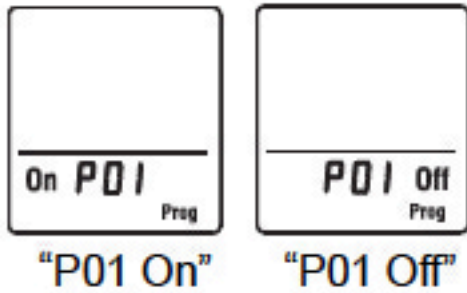
5.4 Program Menu (Prog)

Use the Program menu to set the programs; i.e. the times you want the lights to turn On or Off when the switch is in Automatic mode. To set a program, proceed as follows:

- 1 Select a program number (see section 5.4.1)
- 2 Set the day(s) of the program (see section 5.4.2)
- 3 Set the program start time (see section 5.4.3)

5.4.1 Selecting a program number

You can set up to 21 "On" programs ("P01 On" to "P21 On") and 21 "Off" programs ("P01 Off" to "P21 Off"). For example, select an "On" program to set when to turn the lights on; select an "Off" program to set when to turn the lights off.



5.4.2 Setting the day(s) of the program

After selecting a program, set the day(s) of the program. You can select a specific day, all 7 days or "none". Choose "none" for any unused program.

5.4.3 Setting the program start time

After setting the day(s) of the program, set its start time. You can select either a specific time, the sunset time or the sunrise time:

- To select a specific time:
 - (1) Advance to the hour setting and select the hour.
 - (2) Advance to the minutes setting and select the minutes.
- To select sunset or sunrise time:
 - (1) Advance to the hour setting and select the sunset time or sunrise time. (When you scroll, the sunset time ☾ and sunrise time ☀ appear between 11 pm and 12 am.)
 - (2) To enter an offset (from -70 to +70 minutes in 10-minute increments) between the sunset or sunrise time and the program start time, advance to the minutes setting and change the minutes.
 - EXAMPLE: If the sunset time is 6:13 pm and you change the minutes to display 6:43 pm, you have entered a delay of 30

minutes. If, later in the year, the sunset time is 4:01 pm, the program will start at 4:31 pm.

- NOTE: When you enter an offset, ⚡ appears along with ☾ or ☀ when you display the sunset or sunrise time. To remove the offset, display the sunset or sunrise time and change the minutes until ⚡ disappears.

5.4.4 Examples

Example 1: The lights turn on at sunset and off at 11:00 pm every day (default setting).

Program	Days	Time	Program	Days	Time
P01 On	All 7 days	sunset	P01 Off	All 7 days	11:00 pm
P02 On to P07 On	None	—	P02 Off to P07 Off	None	—

Example 2: The lights turn on at sunset and off at sunrise every day.

Program	Days	Time	Program	Days	Time
P01 On	All 7 days	sunset	P01 Off	All 7 days	sunrise
P02 On to P07 On	None	—	P02 Off to P07 Off	None	—

Example 3: The lights turn on at 8:00 pm every day and turn off at 10:00 pm every day except on Saturday night when they turn off at 1:00 am.

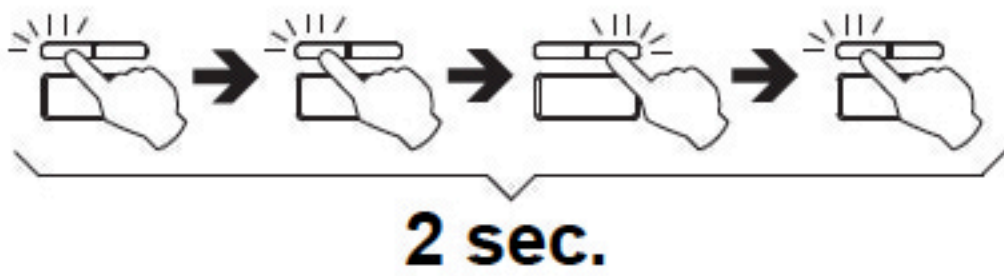
Program	Days	Time	Program	Days	Time
P01 On	All 7 days	8:00 pm	P01 Off	Sunday (Su)	10:00 pm
P02 On	None	—	P02 Off	Monday (Mo)	10:00 pm
P03 On	None	—	P03 Off	Tuesday (Tu)	10:00 pm
P04 On	None	—	P04 Off	Wednesday (We)	10:00 pm
P05 On	None	—	P05 Off	Thursday (Th)	10:00 pm
P06 On	None	—	P06 Off	Friday (Fr)	10:00 pm
P07 On	None	—	P07 Off	Sunday (Su)	1:00 am

Be careful about overlapping!

For example, if you set "P01 Off" at 10:00 pm for all 7 days and set "P02 Off" to 11:00 pm for Saturday, on Saturday, the lights will turn off at 10:00 pm, not 11:00 pm since "P01 Off" is set to an earlier time than "P02 Off".

6 Keypad Lock

When the keypad is locked, the 🔒 icon appears on the screen and the only change permitted is the changing of the state. For example, if the lights are off, they will turn on when you press the main button. However, in Automatic mode, the default state for the current program will be overridden until the next program starts. If you press the main button again before the start of the next program, the lights return to their initial state. To lock or unlock the keypad, press the buttons in the following order:



NOTE: You must perform the whole procedure in an interval of 2 seconds. If the procedure was not properly performed, wait another 2 seconds before retrying.

7 Reset to default Settings

To return the switch to its default settings, simultaneously press both main and left buttons and hold. The software version will appear for 5 seconds. RST will appear for the next 5 seconds. Release the buttons when all segments appear on the screen. The switch is now reset (see default settings in the menu flowchart).



8 Troubleshooting

The display is faded or irregular.	The ambient temperature is either below or above switch's operating temperature.
The display disappears when you toggle the other switch.	Swap the LINE and 3-WAY wires.
The sunset or sunrise time is inaccurate.	- The date or time is wrong (see section 5.2). - The longitude or latitude is wrong (see section 5.3.3). - The correction factor is wrong (see section 5.3.4). - You have entered an offset (see section 5.4.3).

9 Specifications

- Supply: 120 VAC, 60 Hz
Maximum load: 1800 watts
Operating temperature range: -15 °C to 50 °C (5 °F to 122 °F)
Storage temperature range: -40 °C to 60 °C (-40 °F to 140 °F)
Power outage: The screen is blank. Only the time must be set if the outage lasts more than 4 hours; all other settings and programs are permanently saved.
Latitude range: from -65° to +65°
Solar table precision: +/- 11 min. (within ±60° latitude)
Certification: UL (c UL us)

Warranty

Honeywell warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of three (3) years from the date of purchase by the consumer. If at any time during the warranty period the product is determined to be defective or malfunctions, Honeywell shall repair or replace it (at Honeywell's option). If the product is defective,

- (i) return it, with a bill of sale or other dated proof of purchase, to the place from which you purchased it, or
- (ii) call Honeywell Customer Care at 1-800-468-1502. Customer Care will make the determination whether the product should be returned to the following address: Honeywell Return Goods, Dock 4 MN10-3860, 1885 Douglas Dr N, Golden Valley, MN 55422, or whether a replacement product can be sent to you.

This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Honeywell that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer. Honeywell's sole responsibility shall be to repair or replace the product within the terms stated above. HONEYWELL SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you. THIS WARRANTY IS THE ONLY EXPRESS WARRANTY HONEYWELL MAKES ON THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE THREE-YEAR DURATION OF THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state. If you have any questions concerning this warranty, please write Honeywell Customer Relations, 1985 Douglas Dr, Golden Valley, MN 55422 or call 1-800-468-1502.

Customer Assistance

If you have any questions about your light switch, go to <http://yourhome.honeywell.com>, or call Honeywell Customer Care toll-free at 1-800-468-1502.