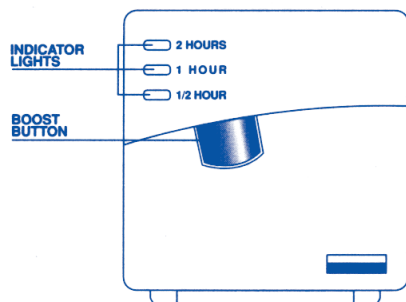


POWERSAVER

BOOST



POWERSAVER FAMILY 16A CONTROLLERS – INSTALLATION INSTRUCTIONS

WARNING – ISOLATE MAINS BEFORE INSTALLATION & SERVICING

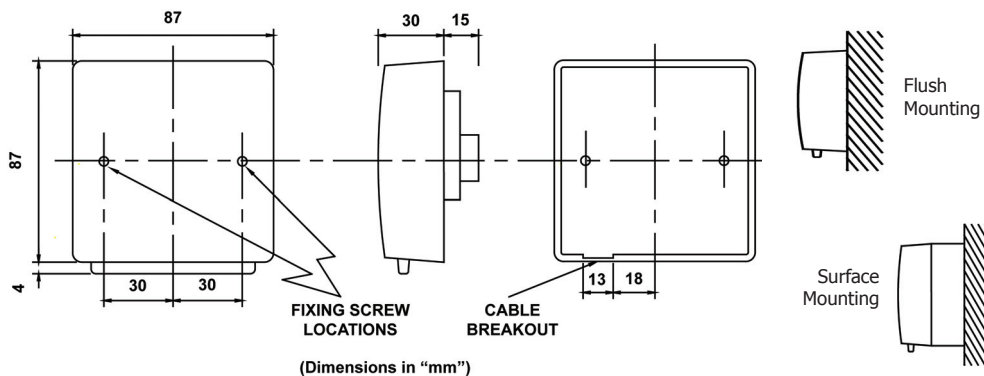
THE INSTALLATION SHOULD BE CARRIED OUT BY A SUITABLY QUALIFIED PERSON, IN ACCORDANCE WITH THE CURRENT EDITION OF THE I.E.E. WIRING REGULATIONS.

WARNING : All Powersaver products must be earthed, using the earth terminals at the rear of the switch. The following cabling is recommended:
 L & N - 1.5mm² - 4.0mm² fixed
 - 1.5mm² - 2.5mm² flexible (retro fit applications only in conjunction with 143609 surface box)
 L & N - 1.5mm² - 2.5mm² fixed or flexible

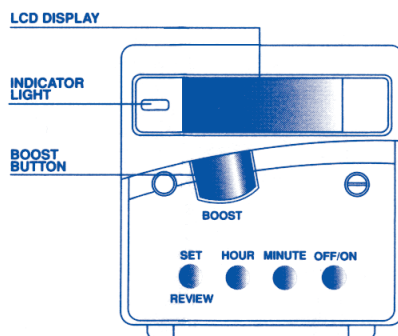
Provision must be made in the fixed wiring for a means of disconnection from the supply having a contact separation of at least 3mm on all poles. This can be provided by the consumer unit.

The Powersaver Product Range are independently mounted time switches, of electronic construction, which can be surface or flush mounted. For flush fitting, a metal box of at least 32mm internal depth should be fitted with the earth terminal at the bottom.

For surface mounting, use a patress box with a minimum internal depth of 32mm.



DAILY



Please note that when surface mounting on to a single patress box in place of an existing SPST light switch, the neutral wire may need to be fed from another neutral point.

Do not remove the Powersaver from its packaging until the patress/wall box is fitted and cleared of dust & debris. The Powersaver Range is suitable for use in a normal pollution situation.

The cable clamp at the rear of the unit is for outgoing cables to the appliance only.

CONNECTION WARNING:

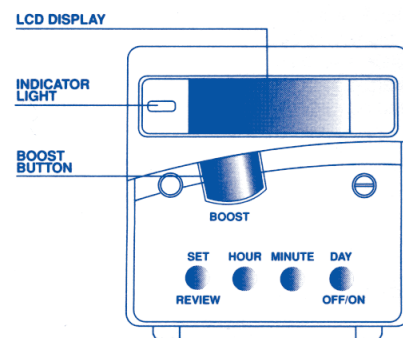
Isolate mains before installing. Supply terminals are for fixed wiring only. Load terminals are for fixed or flexible wiring. Remove 8mm of insulation from each wire and twist any multiple connection together.

All earth conductors must be sleeved (green/yellow) and connected to earth terminal using earth terminals provided on rear of switch. Fit the Powersaver to the patress box using screws provided.

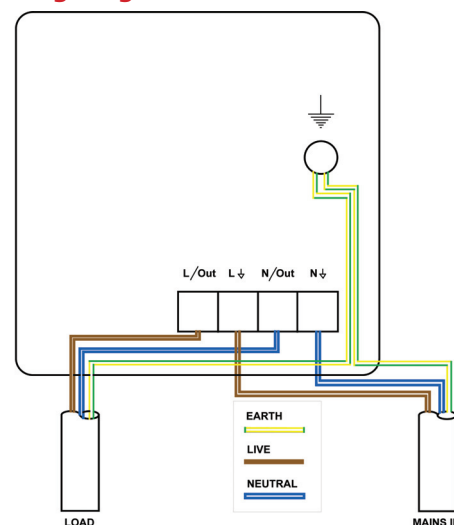
When cutting the aperture for the output flexible cord, ensure no sharp edges remain.

PLEASE NOTE : This product is not suitable for mounting on unearthed metal or metalised surfaces.

WEEKLY & 24/7



Wiring Diagram



Specification

CONTACT RATING	16A Resistive, 240V a.c.
SUPPLY	240V, 50-60Hz a.c.
FIXING	Single Patress – Surface & Flush Mounting
RESOLUTION OF PROGRAMS	10 Minutes
POWER CONSUMPTION	10VA Maximum
LIVE PARTS PROTECTION	This unit is totally protected by the enclosure
DIRT & MOISTURE PROTECTION	IP00
SHOCK PROTECTION	Class 1 (This must be connected to earth)
CASE MATERIAL	Polycarbonate, PT1 175
TEMPERATURE RATING	T35
OPERATING TEMPERATURE	0°C to +35°C
MEMORY RESERVE (except Boost)	4 Hours – when on power for previous 12 hours
DISPLAY	Liquid Crystal Display (Boost product has no display)
PROGRAM SETTINGS	24/7 - Max 3 On & 3 Off operations (7 days) each day independently programmable. Weekly - Max 3 On & 3 Off operations (Mon-Fri), Max 3 On & 3 Off alternative operations (Sat/Sun). Daily - Max 3 On & 3 Off operations (Daily).
BOOST FACILITY	User selectable – ½, 1 or 2 hours
TYPE OF ACTION	Type 1B
CONTROL POLLUTION CATEGORY	Normal

SERVICE AND WARRANTY

Your Powersaver controller is not user serviceable. PLEASE DO NOT TRY TO DISMANTLE THE UNIT. This product is guaranteed by your supplier for 2 years from the Date of Manufacture. If it should become defective, please contact your installer or supplier for a replacement unit.

CUSTOMER CARE POLICY

As part of Sangamo's continuous improvement program, the Company operates a Customer Care Policy. This means that we welcome your comments and complaints, as it can help us to improve our services to you, our customer.

Due to our policy of continuous product improvement and development, the specifications in this guide may be subject to change without prior notice.

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BOOST

The Powersaver Boost offers 3 options for the on period duration : ½ hour, 1 hour or 2 hours.

To activate the Boost function, press Boost button once for ½ hour, twice for 1 hour or 3 times for 2 hours. On the fourth press of the button, the operation will cancel.

INDICATOR LIGHTS

The Powersaver Boost is fitted with three indicator lights to display which setting is selected. While the Boost is active, the indicator light will change to identify the maximum remaining boost time e.g. 2 HOURS selected.



DAILY, WEEKLY, 24/7

After the unit has been installed and powered up, a full display will be indicated. As shown below, this initial display will flash continuously until the Time Setting Mode has been entered.



1. Press the Set button once and the display shown below will be indicated.



During time and program mode, parts of the display that flash indicate what can be altered.

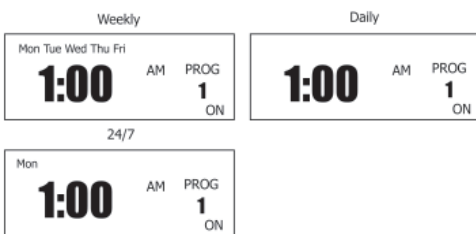
2. Use the Hour and Minute buttons to select the correct time. Remember to ensure that the am/pm indicator is correct.
3. Use the Day button to select the correct day of the week on the Weekly & 24/7 programmers.
4. Once the correct time has been entered, the display shown below will be selected.



5. Press the Set button once.

PROGRAM SETTING MODE:

As soon as the correct time has been selected and the Set button pressed, the unit automatically proposes that the program switching time be set and the display shown below will be indicated.



It is best to write down all program times, prior to programming.

PROGRAM EXAMPLES:

Weekly	i.e. Mon-Fri	Prog 1 – on 7:40am off 8:30am Prog 2 – on 11:50am off 12:40pm Prog 3 – on 5:20pm off 11:00pm
PS24/7	i.e. Mon/Wed/Fri	
Weekly	i.e. Sat & Sun	Prog 1 – on 8:30am off 10:30am Prog 2 – on 12:00pm off 2:30pm Prog 3 – on 6:00pm off 11:30pm
PS24/7	i.e. Tue/Thur, Sat/Sun	
Daily		Prog 1 – on 7:40am off 8:30am Prog 2 – on 11:50am off 12:40pm Prog 3 – on 5:20pm off 11:00pm

TO SET PROGRAM SWITCHING TIMES:

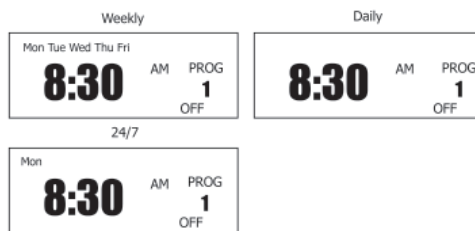
1. Use the Hour and Minute buttons to select the first on time, e.g. 7:40am (see display below).



2. Press the Set button once (see display below).



3. Use the Hour and Minute buttons to select the first off time, e.g. 8.30am (see display below).



4. Press the Set button once.
5. To input programs 2 and 3, repeat steps 1 – 4.
6. When program 3 off time has been entered :-
a) WEEKLY unit then proposes the weekend switching times (see display below).
b) 24/7 unit then proposes Tuesday switching times (see display below).



7. To input the next day or day group program times, carry out steps 1 – 5.
8. Additional speed features on 24/7 unit when setting programs:-
a) Press Boost to copy current day programs into the next day (see display below).



b) Press Day to skip to next day (see display below).



When the Set (or Day or Boost on 24/7 unit) has been pressed for the last time, the display will return to the normal running mode, as shown below.



The indicator light will glow green when a program is active.

NOTES ON PROGRAMMING:

- All programs must be in consecutive order, i.e. Program 1 must be before Program 2, and Program 2 before Program 3. If in the wrong order, error messages will be displayed.
- If only 2 or less programs are required, for the remaining programs enter the same on and off times, e.g. Prog 3 on 8:00pm, off 8:00pm.

- Programming past midnight is NOT allowed. An error message will be displayed. To overcome this the program needs to be split into two, as per example:
Desired Program Period - on 10:00pm off 07:00am
make Prog 1 - on 12:00am off 07:00am
make Prog 2 - on 10:00pm off 12:00am
- If you try to input the off time before the on time, an error message will be displayed. Press Set to continue.
- If a button is not pressed within 30 seconds, the unit will revert to the normal running mode. To return to the programming, continue to press the Set button until the program number you require is shown.

REVIEW MODE/PROGRAM MODIFICATIONS MODE:

- To review/change program settings:
1. Press set button twice to access first program setting.
 2. Continue to press set button to scroll through all program settings.
 3. 24/7 only you may also press day button to fast forward to specific day.
 4. Use the hour & minute buttons at any time to change a program setting.
 5. Either continue to press the set buttons (24/7 only - you may also press day button) until the normal running mode displayed or leave unit for 30 seconds and it will do so automatically.

NORMAL RUNNING MODE:

In the normal running mode, the unit displays the correct time and day and active programs, e.g. as shown below.



There are 3 more features available in this mode:-

- Boost mode.**
- Off (Holiday) mode.**
- Program Override mode.**

A. BOOST MODE:

- There are 3 boost options:-
- ½ hour
 - 1 hour
 - 2 hours

To activate the boost function, press the Boost button once for ½ hour, twice for 1 hour and three times for 2 hours. On the fourth press of the button, this facility will be cancelled.

As the Boost button is pressed, the display will indicate which option you have selected. The indicator light will glow green.

The display will show remaining boost time.



If, while a boost period is active, you wish to extend the action, press the Boost button until you reach the desired length, i.e. ½ hour, 1 hour, 2 hours.

B. OFF (HOLIDAY) MODE

The holiday function allows you to suspend switching actions, without losing the programs you have set. To activate, simply press the Off button once and "OFF" will be displayed. To cancel this function, press the Off button again. See display below.



NOTE : This is NOT an override function for programs.

C. PROGRAM OVERRIDE MODE

If, during a program On time, you wish to cancel the program, simply press the Boost button once.

NOTE : The program settings will not be affected and the next time this program is due, it will function as normal. Adjoining programs will also be cancelled.