TIMEGUARD®

7 Day Digital Light Switch with Optional Dusk Start

Model: ZV700B

Installation & Operating Instructions

1. General Information

These instructions should be read carefully and retained for further reference and maintenance.

2. Safety

- Before installation or maintenance, ensure the mains supply to the light switch is switched off and the circuit supply fuses are removed or the circuit breaker turned off.
- It is recommended that a qualified electrician is consulted or used for the installation of this light switch and install in accordance with the current IEE wiring and Building Regulations.
- Check that the total load on the circuit including when this light switch is fitted does not exceed the rating of the circuit cable, fuse or circuit breaker.

3. Technical Specifications

- 230V AC 50 Hz
- This light switch is of class II construction and must not be earthed
- Switch Rating:

Incandescent Lighting:	40 – 400W
Fluorescent Lighting:	18 – 76W
LED Lighting:	Minimum 5W (individual) Maximum 20W total load (Each 5W minimum)

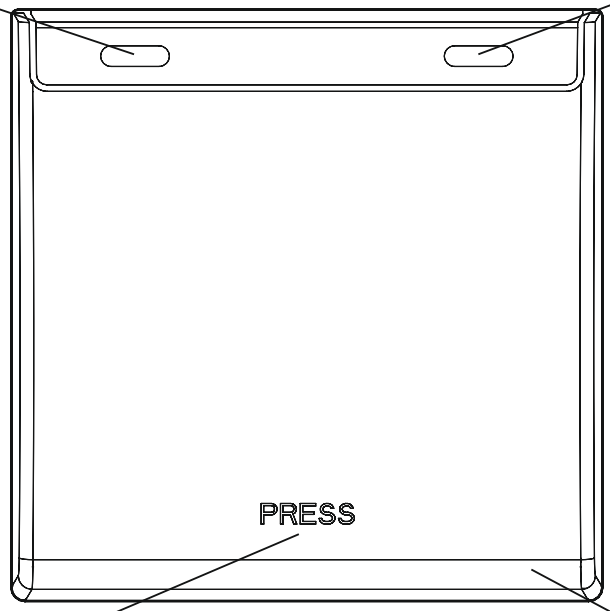
The LED switching capabilities of this product can be increased to 200W by the addition of the Timeguard ZV900 Automatic switch load controller – sold separately

- Fuse: 2A rated BS646, 5mm x 20mm (1x spare fuse supplied)
- Minimum Depth of Wall Box: 25mm
- Operating Temperature: 0°C to +40°C
- Manual light switch, with the option of automatic timed control of lighting on a weekly basis
- Dusk until timed OFF and random switching option
- Automatic summer/winter change over
- Internal battery back-up
- Press closed flap to override output
- CE Compliant
- Dimensions: H=85mm, W= 85mm, D=36mm

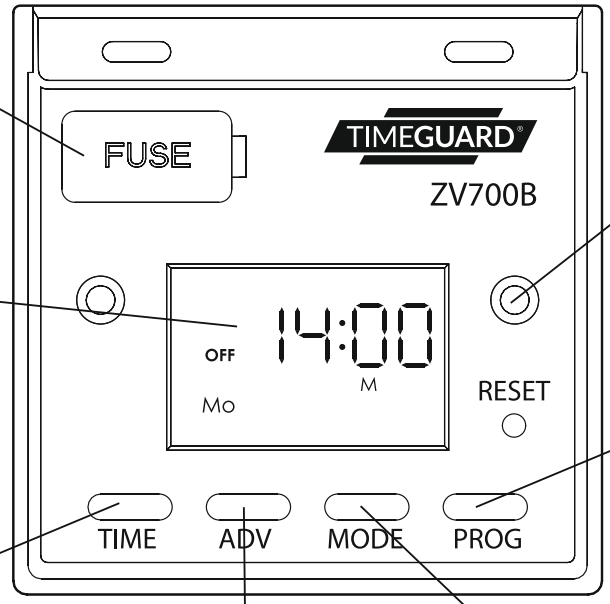
Note: Not suitable for use with Discharge Lighting

This product requires to be permanently charged which is achieved through the switched Live. As such, some LED and CFL lamps may glow or flash whilst this product is in the "OFF" status. This glow/flash can be eliminated by adding the Timeguard ZV900 Automatic switch load controller to the circuit. The ZV900 is sold separately.

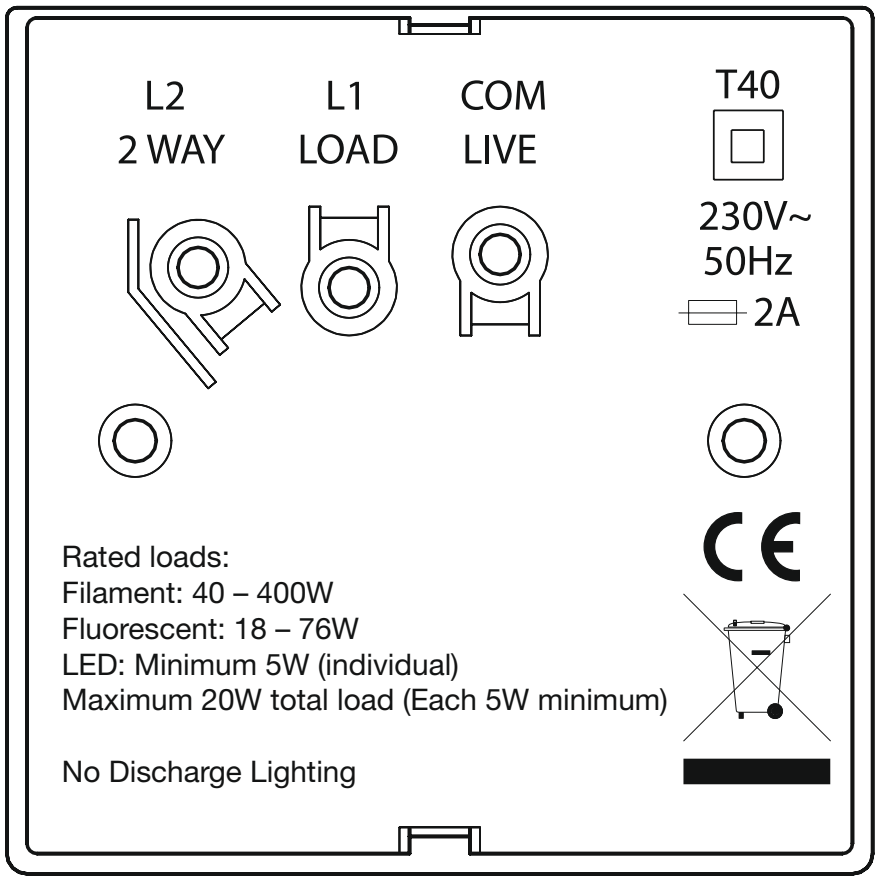
ZV700B – Flap Closed



ZV700B – Flap Open



4. Installation

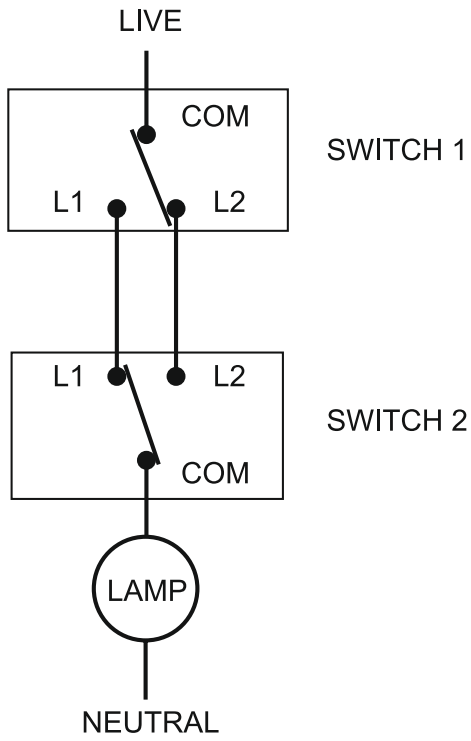


Remove the existing light switch, and transfer the wires to the ZV700B according to the following instructions;

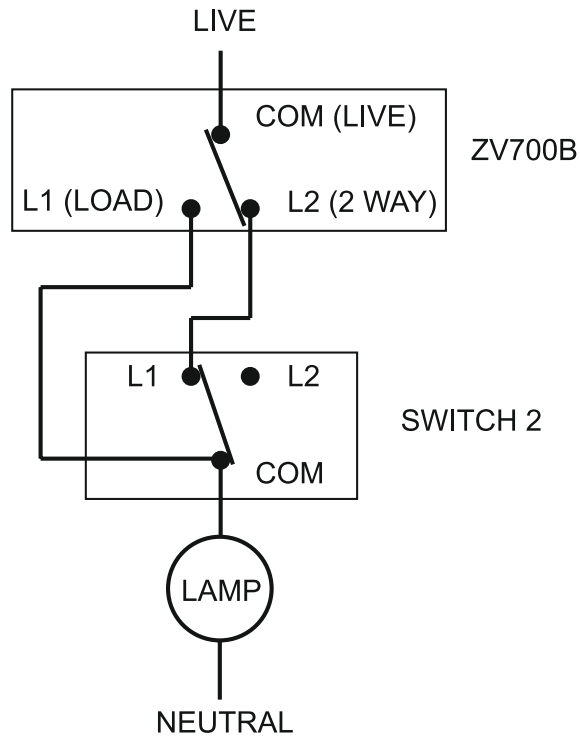
- If the switch is an ON/OFF type, the supply wire should be inserted into the live terminal (com), and the live out (L1) to the load terminal. Do not disturb any earth wires connected to the wall box terminal.
- For 2 way switching, please refer to the following wiring diagrams:

5

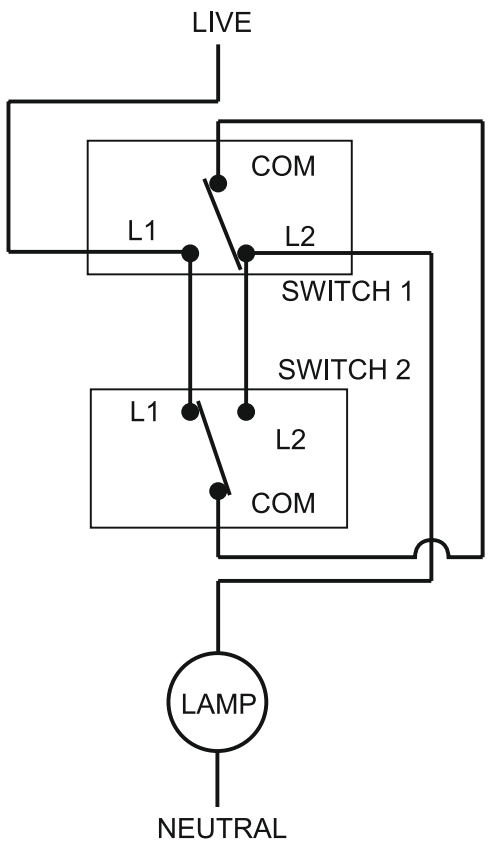
3 WIRE SYSTEM BEFORE



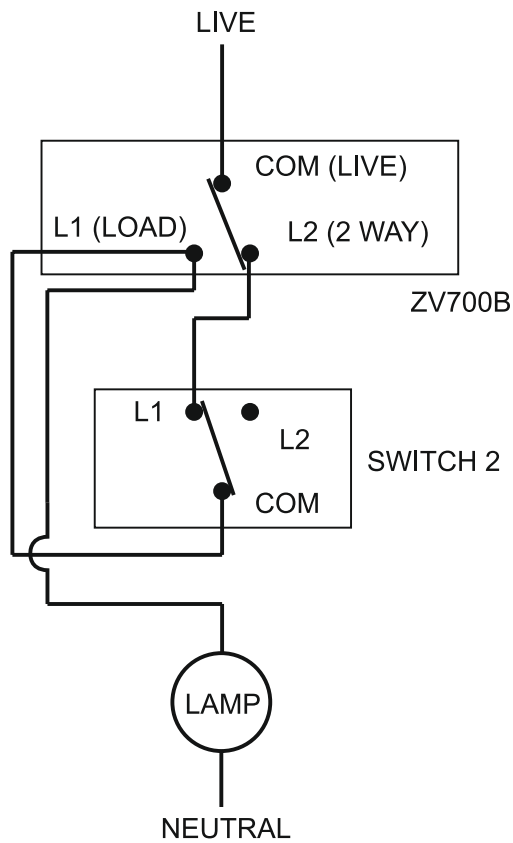
3 WIRE SYSTEM AFTER

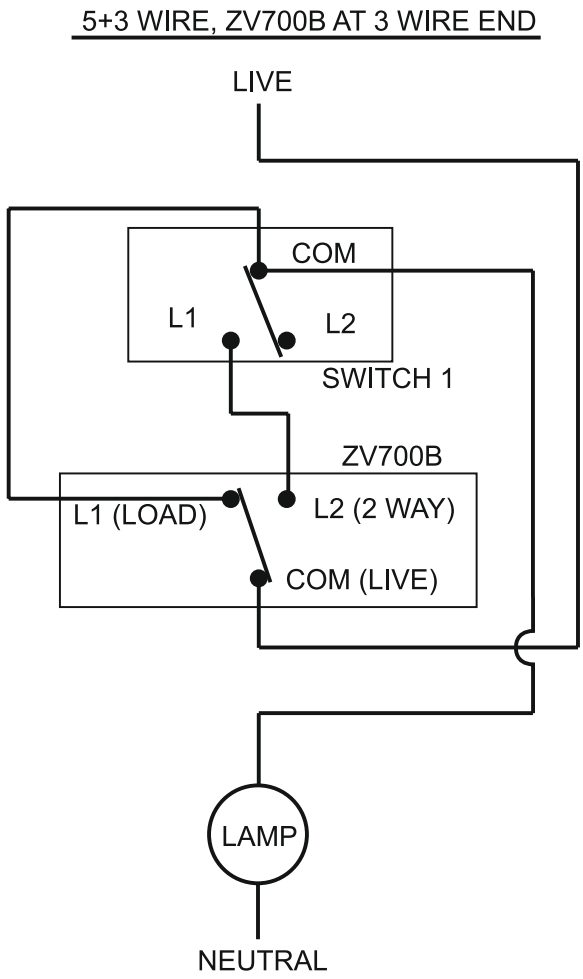


5+3 WIRE SYSTEM BEFORE



5+3 WIRE, ZV700B AT 5 WIRE END





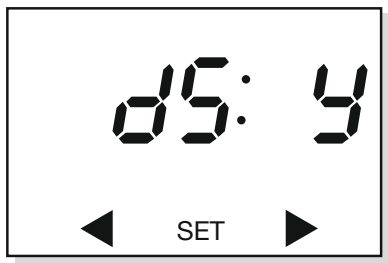
Note: an additional connector block may be required.

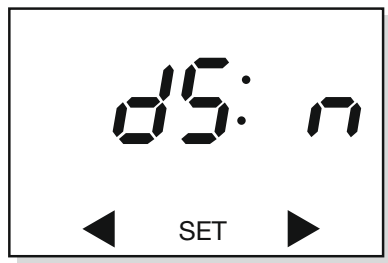
- Once mains power has been restored, the ZV700B will require its internal battery to be charged before programming. Once it is charged sufficiently (Approximately 4 hours), the display will show "––:––"
- Reset must be pressed before commencing programming.

5. Programming

Time and Date

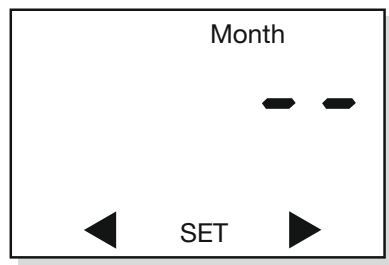
- From first power up, the screen should show "––:––"
- Press 'Time' and hold for 3 seconds. Whilst holding, the word hold will show.
- Once in time program mode, the first option is day light saving (summer/winter changeover), on or off. The screen should show dS: Y, and using the 'Adv' and 'Mode' buttons changes it to dS: n.



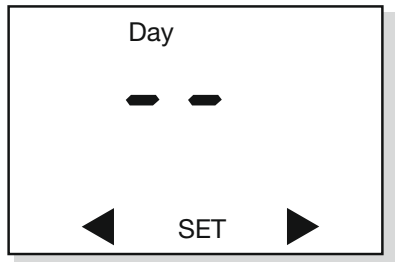


- Press 'Time' to adjust the year. The default year should show as 2009. Use 'Adv' or 'Mode' to change the year to the correct year.

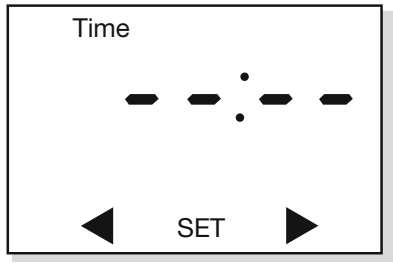
- Press 'Time' to adjust the month. The second two digits should blink.



- Use ‘Adv’ or ‘Mode’ to set the month.
- Press ‘Time’ to set the day. The first two digits should blink.



- Use ‘Adv’ or ‘Mode’ to set the day.
- Press ‘Time’ to set the time. The hour symbol should blink.



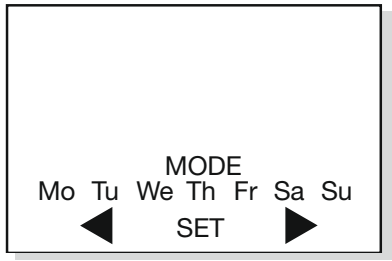
- Use ‘Adv’ or ‘Mode’ to set the hour. The hour is a 24hr clock.
- Use ‘Time’ to move the blinking to the minutes.
- Use ‘Adv’ or ‘Mode’ to set the minutes.
- Press ‘Time’ to exit the Time/date entry, and return to the operating mode.
- The display should now read;

- Showing correct time/day of the week, and output status off.

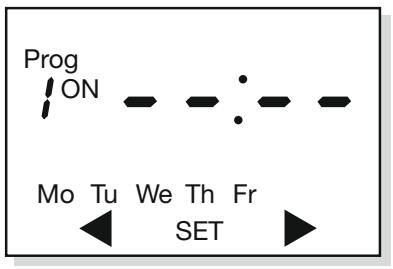
- During programming, when the 'Adv' or 'Mode' buttons are held down, the adjusted setting will scroll faster.
- Holding down the 'Time' button for 3 seconds will exit the programming time/date mode. This can be done at any time during programming.

Programming ON/OFF Times

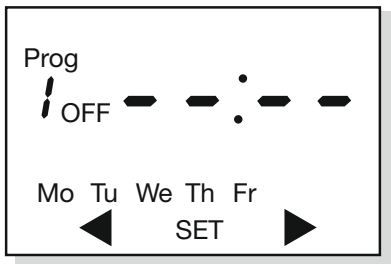
- Press 'Prog' and hold for 3 seconds. Whilst holding, the word hold will show. The mode screen will show.



- Use 'Adv' or 'Mode' to change the program mode. This will scroll through the following programming options; 24 hour – Mo Tu We Th Fr Sa Su.
  5 day – Mo Tu We Th Fr (2 day – Sa Su).
  7 day – Mo.
- Once the desired option is selected, press 'Prog' to move onto programming ON/OFF times. Display will show prog 1 on, and the hour cursor should be blinking (The example shown is for 5 + 2 programme, as screen shows Mo Tu We Th Fr).

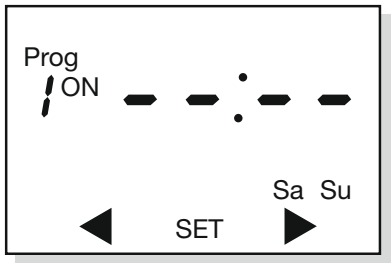


- For the 24 hour mode, Mo Tu We Th Fr Sa Su will remain displayed during programming.
- For 7 day different mode, the default will start with Mo, and when programming is complete for Mo, it will move on to Tu, We, Th, Fr, Sa, Su in turn until all are programmed.
- Use ‘Adv’ or ‘Mode’ to set the time, using ‘Prog’ to change between hours and minutes.
- Press ‘Prog’ to change to programme 1 OFF time.

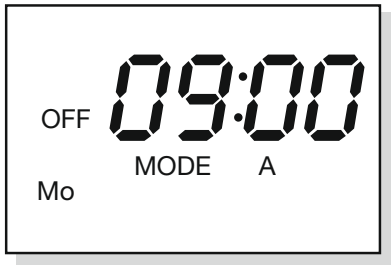


- Use ‘Adv’, ‘Mode’ and ‘Prog’ to set the off time.
- Press ‘Prog’ twice so that the on time for programme 2 flashes. Scroll through programme 2 on, programme 2 off, press ‘Prog’ twice, programme 3 on, programme 3 off, press ‘Prog’ twice, programme 4 on, programme 4 off, press ‘Prog’ twice, programme 5 ON, programme 5 OFF, press ‘Prog’ twice, programme 6 ON, programme 6 OFF, adding in times as required.

- At any stage, after programming an off time, if ‘Prog’ is pressed once, there is the option of changing to the next day, and skipping the remaining ON/OFF times.
- Press ‘Prog’ to move to next programmed time mode (in example shown Sa Su).



- Set ON/OFF times as before.
- Once programme 6 off has been set, press ‘Prog’ to exit programme mode.
- At any time during programming, if the ‘Prog’ button is held down for 3 seconds, the ZV700B will return to operating mode. The display will now show;



- Where the time is correct, the day is correct, and the on /off indicator reflects the current programme. The default mode when leaving programming is Auto, depicted by an A on the display.

Reviewing Programmes

- Press and hold ‘Prog’ until the programmed mode shows on the screen. This will show the mode the ZV700B was programmed in. It is possible at this stage to change this mode (say from 24 hr to 5+2) using ‘Adv’ or ‘Mode’, but this may blank any previously entered times. Press prog to confirm the mode you wish to change.
- Use ‘Adv’ or ‘Mode’ to scroll to the day(s) that needs reviewing. Press ‘Prog’ to access the entered times, and change as per programming instructions.

Programming Across Midnight

- To programme across midnight, enter the start time of the last period (say 20:00), and then leave the end time blank (––:––).
- Start the following days ON period at 00:00 and then enter the OFF time that is required.

  Note: For 24 hour setting the first ON period would be 00:00 for all 7 days.
- When scrolling times in programming mode, either from 0 to 24 hours, or 00 to 59 minutes, there is the option of re-entering “ –– ”.

Cancelling Programmes

Programmes can be cancelled by re-entering "––" instead of the hour and minutes.
Both ON times, and OFF times need to be blanked out.

6. Operating Mode

- In operating mode, 'Adv' advances the programme to the next change. If the output is off, it will change the output to on until the next programmed OFF period. If the output is on, it will turn it off until the next programmed ON period. The plastic flap presses on the 'Adv' button to turn the output on.

  Note: It is not necessary to open the flap.

- The ZV700 has four operating modes.
  Pressing the mode button scrolls between modes;

  Auto mode (A): The output will be controlled by the programmed times.

  Photocell (P): This operates using the programmed ON/OFF times, but the output only switches on when the light level drops. The output will only come on if it is within a programmed on period.

  Random mode (R): This uses the programmed ON/OFF times. On a random basis, it can change the ON/OFF times programmed by up to 30 minutes earlier, or later than programmed.

Manual mode (M): In manual mode the output is controlled by the Adv button, not the programmed times.

7. Back Light

- The back light will turn on when any button is pressed. It will remain on for 30 seconds after the last button press.

3 Year Guarantee

In the unlikely event of this product becoming faulty due to defective material or manufacture within 3 years of the date of purchase, please return it to your supplier in the first year with proof of purchase and it will be replaced free of charge. For the second and third years or any difficulty in the first year telephone the helpline on 020 8450 0515.

Note: A proof of purchase is required in all cases. For all eligible replacements (where agreed by Timeguard) the customer is responsible for all shipping/postage charges outside of the UK. All shipping costs are to be paid in advance before a replacement is sent out.

If you experience problems, do not immediately return the unit to the store.
Telephone the Timeguard Customer Helpline;

HELPLINE
020 8450 0515

or email helpline@timeguard.com

Qualified Customer Support Co-ordinators will be on-line to assist in resolving your query.

TIMEGUARD®

A theben Group Company

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or email csc@timeguard.com

www.timeguard.com

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