

## Pneumatic Time Delay Switch

### General Information

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

### Safety Instructions

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

### Technical Specifications

- 230V AC 50 Hz
- Switch Rating: 6A Incandescent and resistive loads, 3A Fluorescent and inductive loads, 80W LED light
- Adjustable Time Delay: 10 seconds to 10 minutes (Approximately)
- Switch Type: Single Pole Change-Over Contact
- Minimum Depth of Wall Box: 20mm
- CE Compliant
- EC Directives: Conforms to latest directives
- Dimensions (H x W x D): 82 x 82 x 40mm

**Note: Not suitable for use with Discharge lighting. The LED switching capabilities of this product can be increased up to 200W by the addition of the Timeguard ZV900 Automatic switch load controller – sold separately**

### Installation

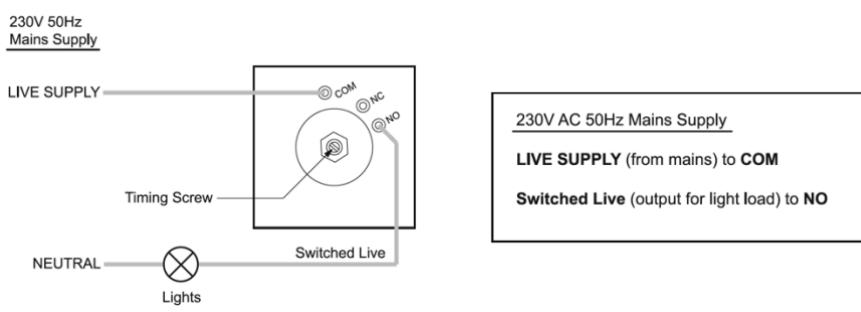
This time delay switch can be used on its own, or with other units in a 2-wire (no neutral) lighting circuit, and therefore can be installed on new installations or to replace existing single gang switches.

- Ensure that the mains supply to the circuit breaker is switched off and the circuit supply fuses are removed or the circuit breaker turned OFF.
- It is recommended that if using moulded backing boxes, please ensure that the box only has two mounting lugs as certain manufacturers do not allow adequate clearance for the Time Delay Switch terminal connections.
- Some moulded boxes also have two locating pips on the mounting face which can obstruct the Time Delay Switch and prevent it from fitting flush. This will need to be ground off.
- If mounting on surfaces such as unplastered brickwork or the mounting box is completely true to the wall surface, please avoid over-tightening the mounting screws, as this may cause the switch faceplate to distort and in turn lock the plunger in the 'ON' position.
- Terminate the 230V 50Hz supply and load cables into the back of the time delay switch ensuring correct polarity is observed and that all bare conductors are sleeved (See section 5. Connection Diagram).
- Once you have adjusted the Time ON delay (see section 6. Timing Adjustment) secure the delay switch to the back box using the two fixing screws supplied, ensuring not to overtighten them.

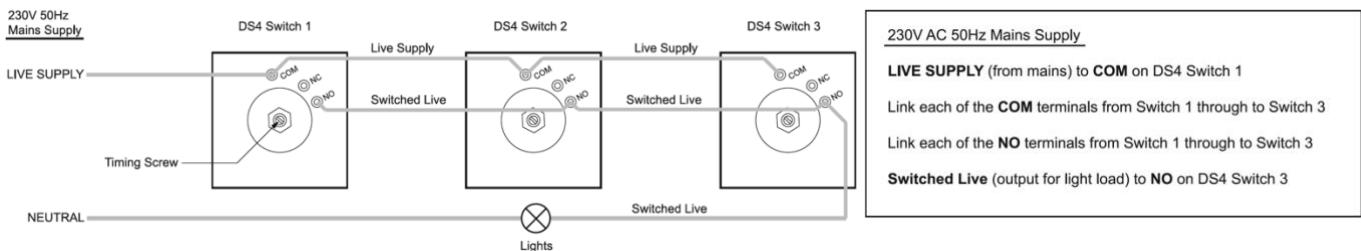
**IMPORTANT: All metal back boxes must be earthed. Please ensure that the top and bottom lugs are removed, if fitted, from the metal wall boxes before fitting as there is a danger of the common terminal (marked COM) fouling a mounting lug and causing an earth fault if boxes having four lugs are used.**

### Connection Diagram

To use one DS4 Time Delay Switch to replace a normal light switch, connect the wires as follows;



You can connect more than one DS4 Time Delay Switches for multiple switching positions. They can be wired in parallel, as follows, to control the same load;



**Note:** The example used is for 3x DS4 Time Delay Switches

**Note:** The COM (common) and NO (normally open) contacts are connected when the plunger is pressed, and will stay on for the set period of the delay. The COM and NC (normally closed) contacts are connected when the timer is off. A neutral feed is not required at the switch position.

#### Timing Adjustment

The timing can be adjusted between 10 seconds and 10 minutes (approx.) by turning the brass timing screw in the centre of the plate on the back of the unit. Use a small flat head screw driver to make any adjustment.

- Turn the timing screw clockwise to increase the time delay
- Turn the timing screw anti-clockwise to decrease the time delay
- Use the nut to lock the screw

#### Operation

- The switch is operated by pressing the plunger button. This will 'make' or 'break' the changeover contacts to trigger the load.
- The plunger will gradually return to its original position during the time delay sequence, eventually returning the changeover contacts to their original position using the snap action of the switch.

**Note:** the face plate is moulded in a semi-translucent material and therefore it is normal to occasionally see a flash when the contacts 'make' or 'break'.