

Timeswitch Pneumatic Time Delay Switch

Part No TS40 & TS41

Fitting and Wiring Instructions



Please ensure that these Instructions are read before installation, and retained for future reference

The TS40 Series is suitable for controlling incandescent (GLS), fluorescent and compact fluorescent lighting. The timer can be used on its own, or with other units in a 2-wire (no neutral) lighting circuit, and can therefore be installed on new installations or replace existing single gang switches.

SPECIFICATION

Part No. TS40 – Time Delay Switch with Single Pole Change-Over Contact

Part No. TS41 – Time Delay Switch with Single Pole Change-Over Contact and Neon Indicator on Faceplate

Switch Current Rating at 240Vac:

Incandescent (GLS) Load = 6A Fluorescent Load = 3A Compact Fluorescent Load = 6 Fittings max. (3A Peak)

Adjustable Time Delay: 10 Seconds to 10 Minutes (Approx.)

FITTING THE UNIT

**ALL WIRING SHOULD BE CARRIED OUT BY A QUALIFIED ELECTRICIAN
IN ACCORDANCE WITH THE CURRENT IEE REGULATIONS.**

ALL METAL BOXES MUST BE EARTHED. PLEASE ENSURE THAT THE TOP AND BOTTOM LUGS ARE REMOVED, IF FITTED, FROM 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.

The TS40 Series has been designed for mounting on a 20mm or 25mm deep Standard BS single gang accessory box. However, it is recommended that deeper boxes are used where extra space is required for additional cables, for example when looping in. Please ensure that there is adequate space for wiring.

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. These 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.

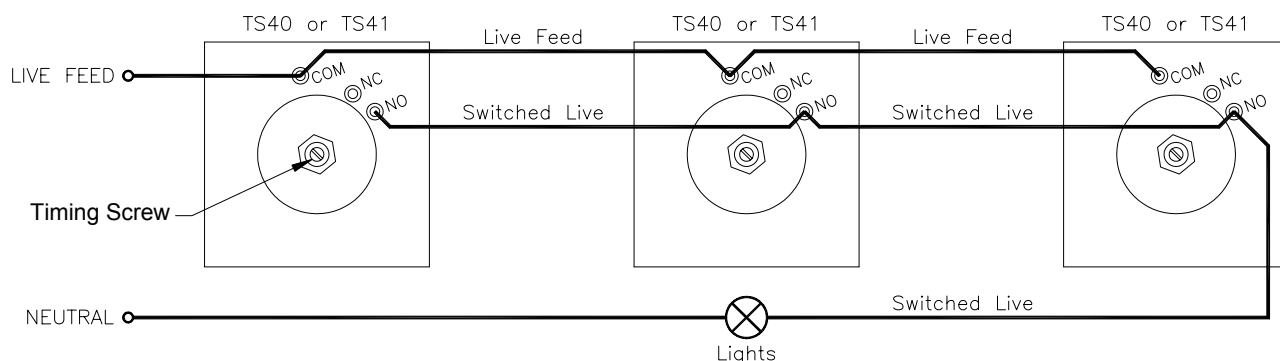
OPERATION

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

WIRING CONNECTION

COM (Common) and **NC (Normally Closed)** Contacts are connected when the timer is off. **COM and NO (Normally Open)** Contacts are connected when the plunger button is pressed, and will stay connected for the period of the time delay. As these units are designed for lighting circuits, a Neutral Feed is not required at the switch position.

To use the Time Delay Switch as a normal lightswitch type operation, connect the "Live Feed" Wire into the **COM** Terminal, and the "Switched Live" Wire into the **NO** Terminal. Additional switches can be wired in parallel to control the same load (please see Wiring Diagram below):



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. Turning the Timing Screw clockwise will increase the time delay.