1. Set the Timer

Do not rotate the dial anti-clockwise as this will damage the mechanism. Rotate the minute hand clockwise until the arrowhead on the clock face aligns with the correct time on the outer dial—see Fig. 1.

The dial shows the 24 hour clock. Note that 9 = 9:00 a.m., 21 = 9:00 p.m. When setting-up the 7 day version, align correct time on outer dial, within current day sector of dial. Please note: on the TAC171.1 seven-day timer, the weekdays are printed around the edge of the dial in abbreviations of three languages.

To set ON / OFF times, move all tappets between ON and OFF times required to the outer edge of the dial. See Fig. 1.—to set ON at 7:30 a.m. and OFF at 10:30 a.m. move all tappets to outer position between 07:30 and 10:30 on the dial. Set any other ON/OFF times in a similar manner.

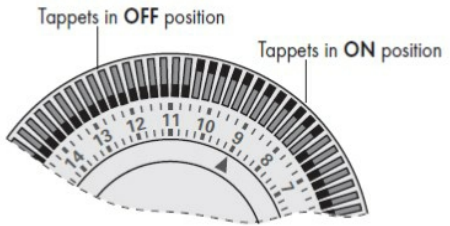


Figure 1.

Minimum switching - 24 hour versions: 15 minutes, 7 day versions: 2 hours

2. Manual Override

There is a three-position manual selector built-in to the clock dial face. See Fig. 2.

Leave the selector in the middle-position for automatic control, when the output is ON or OFF according to the tappet settings. To switch ON manually, move the selector to position 1 (marked I on the dial). To switch OFF manually, move the selector to position 3 (marked 0 on the dial).

The manual lever is a fixed selection. The output will stay as selected until the manual lever is moved once more.

1 = ON

2 = AUTO

3 = OFF

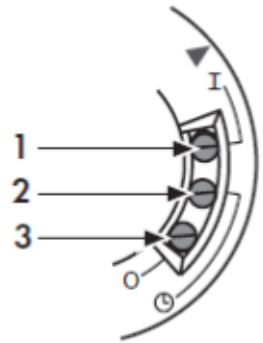


Figure 2.

3. Installation guide

Installation must be carried out in accordance with the current edition of the I.E.E. Wiring Regulations. It is recommended that installation is undertaken only by a qualified electrician.

Undo the recessed cross-head screws. Grip the square timer housing and pull the timer away from the base.

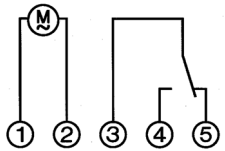
If required the square timer can be panel-mounted by use of the plastic lugs top left / bottom right (push and turn with flat-bladed screwdriver to secure to panel).

If surface mounting, drill the wall to suit the three backplate mounting holes. Secure to wall surface using suitable wall plugs & screws.

If din-rail mounting, hook the backplate to the din-rail and push into place until the red clip clicks behind the lower edge of the rail.

Connect wiring according to the wiring diagram.

Live & Neutral to terminals 1 & 2 (the device is not polarity conscious).



Terminals 3, 4 & 5 are the volt-free switch

3 = common, 4 = normally open,
5 = normally closed.

For mains switching, connect live to 3, fit a short link wire between 3 and 2. Connect incoming and outgoing neutrals to terminal 1. Connect the load switched live, to terminal 4. Do not connect any conductor to 5. If there is an earth continuity conductor, make separate provision to connect incoming / outgoing earth wires. The timer is double-insulated.

Fit the terminal cover to the backplate, push the square timer onto the base. Tighten the cross-head screws. Fit the dust cover.

4. Specification

Motor: 220-240V AC 50Hz

Temperature rating T45

Switch type: changeover

Rating: 16A resistive / 8A inductive
Not suitable for direct switching of lighting types: Fluorescent, HID, SON, LED

Use a contactor for discharge lamps

Class II control / Protection class IP20

Complies with European Norm
EN 60730-1: 2011
Automatic Electrical Controls for Household and similar use,
and European Directives:
LVD; EMC; RoHS

www.tfc-group.co.uk

TFC Group Tonbridge TN9 1TB

OPTIMUM Time Switch

For general purpose use

User instructions

OP-TS111.1 24 Hour Synchronous

OP-TS171.1 7 Day Synchronous

OP-TS211.1 24 Hour Quartz
(running reserve 150H)

OP-TS111.2 24 Hour Synchronous
(panel mount only)

(see rating label for product version)

Contents: