24-Hour/Half Day Omission, Single Output, Motor Timer

RS Stock No. 332-739

Installation

Remove the terminal cover by holding out the recessed locating lug using a screwdriver blade, while simultaneously pulling off the cover.The timer may now be surface mounted using two suitable screws (not supplied) in the top and bottom fixing holes in the timer body. Alternatively the timer may be mounted on standard 35mm Din rail by hooking the top lugs over the rail and then pushing the timer down until it clips in place. Connections to the terminal block can be made as shown below. For safety reasons the terminal shroud (with cable entry push-outs) should be refitted.

Note: When refitting the terminal shroud, it should be pushed until its locating lug clips in position on the timer body.

Connections to the timer are shown below (Figure 1). The contacts show the 'OFF' output state (corresponding to main dial tappets being pushed-in).

Figure 1

Setting the switching programme

1. Setting the daily ON/OFF switching programme

The state of the single pole changeover output switch is determined by the positions of all the 15 minute tappets in the 24 hour period (96 tappets are on the clock dial). Thus at times when the tappets are pushed-in, terminals 1 & 2 are connected and when the tappets are pulled out, terminal 2 & 3 are connected (each tappet may be pulled out or pushed-in using a narrow blade screwdriver to radially pull-out or push-in that tappet). Depending on the number of tappets pulled-out, switching intervals in multiples of 15 minute lengths can be programmed as required on the 24 hour dial. This programme repeats daily (unless inhibited by the half day omission dial - see below).

2. Half day omission dial setting

When a particular half day tappet on the omission dial is pulled out it will override the switching programme set on the clock dial for the 12 hour period corresponding to that tappet.

Note: The tappet nearest to the previous day segment (refer to Figure 3) is the midnight/noon tappet.

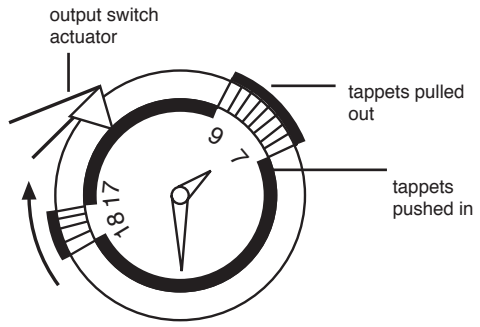
During this 12 hour period the output switch state is such that the terminals 1 & 2 remain connected regardless of the clock dial switching programme. Whole day omission is possible by pulling-out both tappets corresponding to that day. The omission facility is useful when daily programmes are not required during certain week days, half days or at weekends e.g. weekly heating programme.

Note: If any half day tappet is to be pulled-out it should first be in a position other than the omission dial pointer position.

Setting the time

After the daily ON/OFF switching programme is set on the clock dial and the weekly 'half day omission' programme is set on the omission dial, present time and present day of the week can be set.

Figure 2

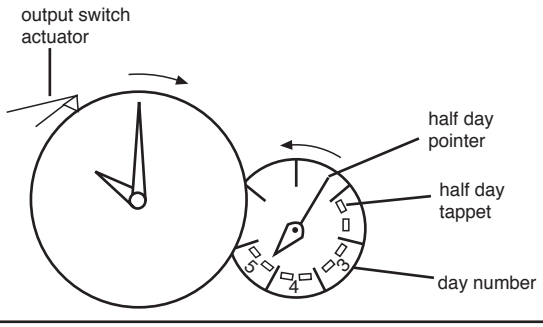


By squeezing in at the sides unclip and remove the transparent front cover. Set the time on the clock hands by turning the clock setting knob, situated at the centre of the 7-day dial, in the clockwise direction. As no anti-clockwise rotation is permissible, care should be taken over-shoot which would require rotation through a further 7 days. The omission dial will advance through one half day for every '12 hour' rotation on the clock dial.

Note: The small dial advance is sudden (i.e. jump) at noon and midnight.

In order to set the correct time and day ensure that the fixed omission dial pointer corresponds to the correct half day tappet of the present day of the week (the time is shown less accurately by the output switch actuator pointing at the graduated circumference of the clock dial). The example shown in Figure 3 indicates the timer set at 10a.m. on day 5 (i.e. Friday, if Monday is chosen as day 1).

Figure 3



Battery back-up

The internal battery back-up will maintain the output switching sequence as programmed for a minimum of 150 hours (when fully charged). A fully charged state is reached after approximately 10 days operation with the supply connected.

Technical specification

Power supply	200-250Vac, 50/60Hz
Clock accuracy	± 5minutes per annum
Battery back-up	150 hours (min.)
Minimum ON/OFF switching interval	15 minutes
Output contact rating	16A at 250Vac (resistive)
Power consumption	3VA