

## Chapter 85

### TIME DELAY SWITCH, SUNVIC, TYPE TYEM/I

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#### LEADING PARTICULARS

Time delay switch, Type TYEM/I	...	Stores Ref. 5CW/4814
Voltage	...	24 V. d.c.
Contact rating	...	0.1 amp.
Time delay (at 24 volts)	...	15-90 sec.
Overall dimensions	...	$2\frac{3}{8}$ in. $\times$ $2\frac{1}{8}$ in. $\times$ $2\frac{3}{8}$ in.
Weight	...	4 $\frac{1}{2}$ oz.

#### Introduction

1. The switch, Type TYEM/1, is a time delay switch which can be adjusted for operation between the limits of 15 and 90 seconds.

#### DESCRIPTION

2. A cut-away view of the switch is shown in fig. 1. It consists essentially of a bi-metal strip carrying a heater winding; when the heater is energized, the bi-metal is deflected and operates a snap-action switch. A second bi-metal strip compensates for variations in ambient temperature. By making the appropriate external connections, the unit can be adapted for use as a normally open, normally-closed, or single-pole change-over switch.

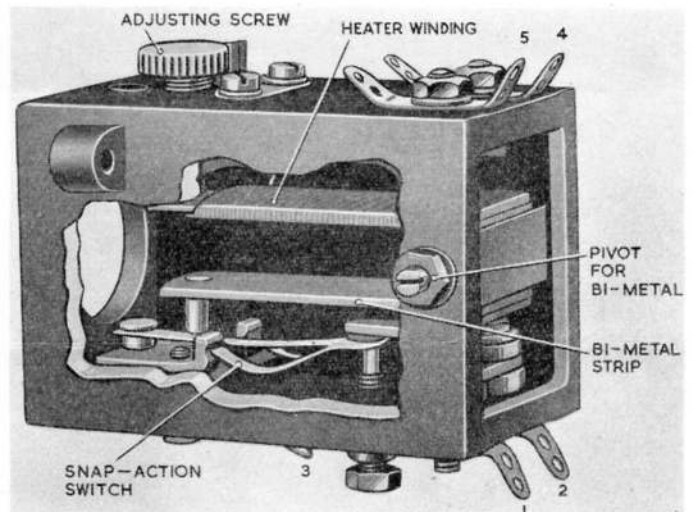


Fig. 1. Time delay switch, Type TYEM/I

(A.L.96, Feb. 57)

3. The time delay can be adjusted, by means of a milled knob, within the limits of 15 and 90 seconds, measured at the nominal voltage. Turning the knob in an anti-clockwise direction will increase the time-delay, and *vice versa*. It should be noted that this knob is connected electrically to the switch contacts, and the supply should be switched off before adjustment is made.

4. Any deviation from the nominal voltage will cause either a longer or shorter time delay before the switch operates. It is not possible to operate the switch again until the bi-metal has had sufficient time to cool and allow the contacts to reset.

5. Electrical connection is made by means of solder tags; the connections are as shown in fig. 2.

6. The case is provided with four mounting lugs for panel fixing.

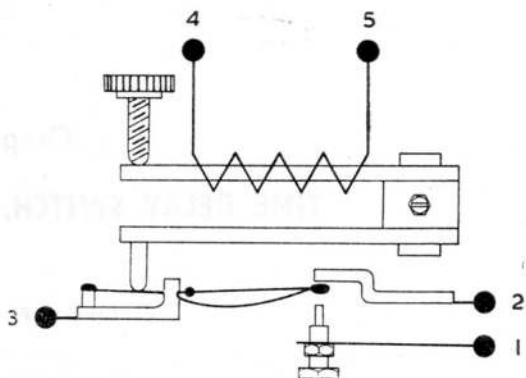


Fig. 2. Diagram of connections

#### SERVICING

7. No servicing is possible with this switch, apart from adjustment by means of the milled screw, if necessary, to bring the time delay to the required value. The supply should always be switched off before any such adjustment is made. A general inspection should be made for freedom from damage and security of connections.

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