

## Chapter 63

### MANUALLY OPERATED SWITCH, ROTAX, TYPE D 10301

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#### LEADING PARTICULARS

<i>Switch, Rotax, Type D10301</i> ... ..	<i>Ref. No.</i> 5CW/4613
<i>Voltage</i> ... ..	24V. d.c.
<i>Rating</i> ... ..	20 amp.
<i>Number of poles</i> ... ..	1
<i>Weight</i> ... ..	2 oz.
<i>Dimensions:—</i>	
<i>Depth behind mounting face</i> ... ..	1.437 in.
<i>Protrusion in front of mounting face</i> (including operating lever) ... ..	0.858 in.

#### Introduction

1. This single pole change over switch is used in aircraft 24 volt d.c. electrical systems where currents up to 20 amps. may be encountered. The switch may be operated manually or mechanically by linkage attached to the operating lever.

#### DESCRIPTION

2. The bottom of the switch lever carries two spring-loaded balls, one of which rests in the centre of a cam. This cam is fitted to

a pivoted contact carrier which has a moving contact at either end. Movement of the operating lever forces the spring-loaded ball over the centre of the cam face causing one of the moving contacts to bear down on a fixed contact. The contacts and operating mechanism are totally enclosed in a moulded Bakelite case from which protrudes the operating lever. A groove is machined on the periphery of the operating lever to facilitate the attachment of linkage for mechanical operation of the switch.

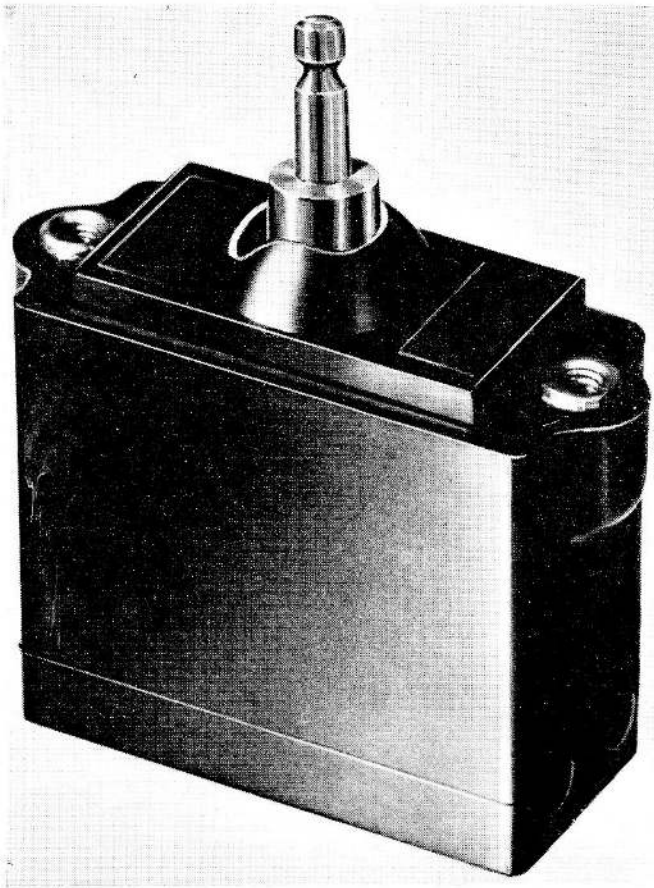


Fig. 1. Type D10301 switch

#### Electrical connections

3. Connections are made via 4 B.A. combined screw and washer terminations at the base of the switch.

#### INSTALLATION

4. The switch is designed for mounting on a panel having a cut-out 0.670 in. by 1.260 in. Two bushes, tapped 4 B.A. at 1.635 in. centres are provided in the front face of the switch.

#### SERVICING

5. These switches are sealed in the course of manufacture and cannot be fully dismantled.

6. They should be examined for cracks and signs of strain and electrical connections should be examined for loose connections and signs of corrosion.

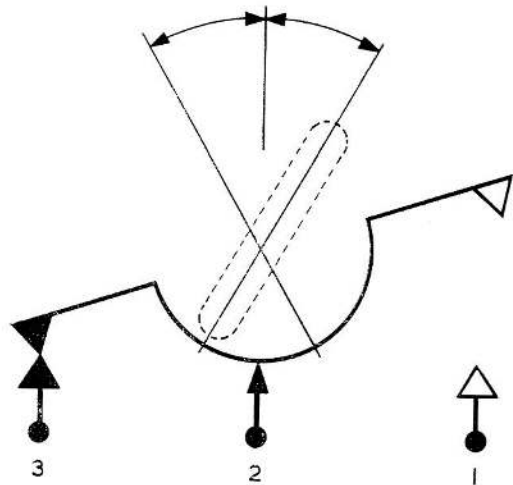


Fig. 2. Internal wiring diagram

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