Chapter 69

PUSH-SWITCH, ROTAX, TYPE D0701

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LIST OF ILLUSTRATIONS

LEADING PARTICULARS

Rating	7 amperes per pole
Length	1·906 in.
Diameter of body	1·100 in.
Dimensions of mounting flange	1·25 in. by 1·25 in.
Weight	1·5 oz.

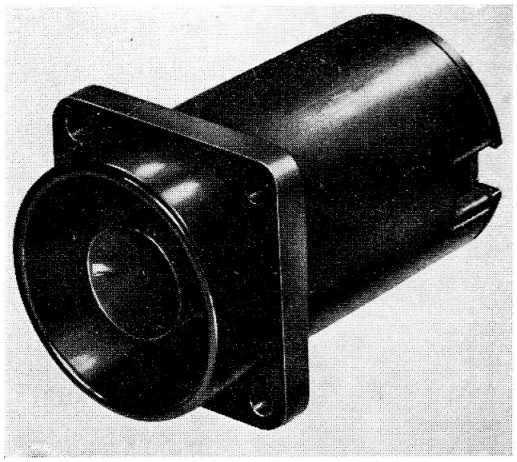

Fig. 1. Type D 0701 switch

Introduction

1. Rotax, Type D 0701 switch is a two-pole push-switch, both pairs of contacts being made when the operating button is depressed. The button has a spring return so that the contacts remain closed only as long as finger pressure is applied to the button. The button is situated in a cup-shaped guard moulding in order to reduce the risk of inadvertent operation.

DESCRIPTION

2. The switch is housed within a cylindrical moulded body. Four leaf contacts are each connected to one of four terminals; connection is made between the appropriate pairs of contacts when a plunger contact is depressed by the push button. Plunger return to normal is affected by a single helical return

spring in compression. The mounting flange is integral with the body whilst the guard moulding is screwed into the end of the end of the body and forms the out stop for the push button. Access to the terminals is gained by removing a screw retained cover from the rear end of the body. Cable entries are two rectangular openings diametrically opposed in the side of the body.

INSTALLATION

[illegible]·120 in. diameter clearance mounting are provided in the mounting flange. [illegible] ing centres form a square 0·960 in. by 0·960 in.

[illegible] four terminals are 4 B.A. combined [illegible] and washer terminations.

SERVICING

[illegible]sure by visual inspection that the [illegible] has not sustained damage and that it is s[illegible]ure on its mounting. Operate the plunger to ensure that its action is smooth and that the return is positive.

Millivolt drop test

6. Allow seven amperes to flow through each [illegible]le of the switch in turn (button depressed). [illegible]potential drop should not exceed 100 [illegible]t across either pair of terminals.

[illegible]ance tests

[illegible]nsulation resistance between [illegible]button normal) and between the two connected pairs (button depressed) using a 250-V. insulation resistance tester. A reading of at least 50,000 ohm. should be obtained in each test.

Note . . .

The value of insulation resistance given in para. 7 applies to switches being tested under normal workshop conditions. Due allowance should be made for the climatic conditions of the locality and those of the aircraft servicing area or dispersal point where the tests are being applied. In particularly damp climates, the readings may be low enough to give apparently sufficient reason for rejection and, in these instances, discretion should be exercised.

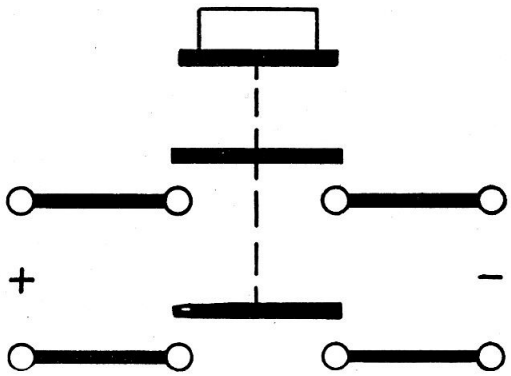

Fig. 2. Diagram of internal connections