Chapter 77

PUSH-SWITCH, SMITHS, TYPE 11SW

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LIST OF ILLUSTRATIONS

LEADING PARTICULARS

Push-switch, Type 11SW ...	*Ref. No. 5CW/4187*
Rating (intermittent)	*0·5 amp. at 24 volts*
Overall length	*1·425 in.*
Diameter of clamp ring	*0·937 in.*
Diameter of body	*0·75 in.*

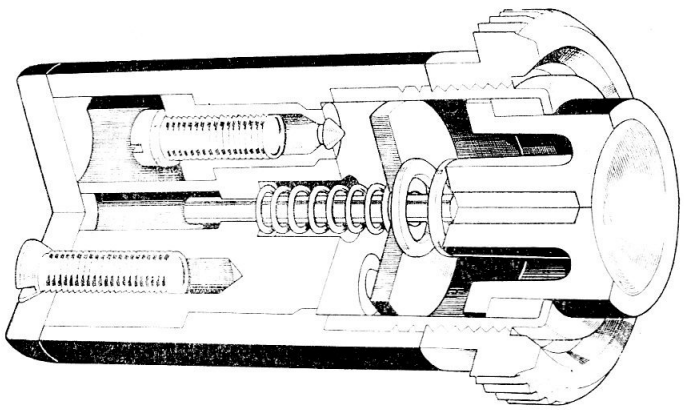

Fig. 1. Push-switch, Type 11SW

Introduction

1. The push-switch, Type 11SW, is a single-pole press-to-make switch rated for intermittent operation at 0·5 amp., 24 volts.

DESCRIPTION

2. A sectional view of the switch is given in fig. 1. The switch contact is a circular plate which is moved on to two small metal cones

by pressure on the push-button. The cones are fitted to two metal bushes which house the two terminal screws. When the push-button is released, the contact plate and the push-button return to their normal OFF positions under the action of a coil spring. A rectangular section spring washer between the contact plate and push-button reduces sparking to a minimum.

3. The body, push-button, and terminal cover are moulded in a hard plastic material. A sleeve moulded into the front of the body is spun over a retaining ring at the front to retain the push-button. A portion of the sleeve is threaded to receive the knurled metal clamp ring which secures the switch to the mounting panel.

4. Electrical connection is made to two terminal screws in the end of the body, to which access is gained after removal of the terminal cover.

SERVICING

5. Little servicing is possible, apart from a general inspection for freedom from damage and security of connections. A faulty switch should be renewed.

6. The switch may be tested for continuity by connecting it in series with a warning lamp and battery. The lamp should glow when the push-button is pressed, and should go out when the button is released.

7. When tested with a standard 250-volt insulation resistance tester, the insulation resistance between the terminals, and between the terminals and any exposed metallic parts of the switch, should not be less than 2 megohms.