## Chapter 81

# MAGNETIC SWITCH, TYPE 16B, No. 5 (PAGE RN8)

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#### LEADING PARTICULARS

Magnetic swi	tch, T	уре 16	B, No.	. 5		Store	Ref. 5	CW/5700
Voltage					·			24 d.c.
Coil resistance	at 15.	6 deg. (	<b>5.</b>			670 oh	ms $\pm$ $^{!}$	per cent
Contact rating						1	amp. a	t 60V d.c.
					0.1	amp. at	300V d	.c. or a.c.
Overall dimens	ions—							
Length								$3\frac{5}{16}$ in.
Width								13 in.
Height								$3\frac{1}{16}$ in.
Weight								$8\frac{1}{2}$ oz.
Minimum circu	iit curi	ent						21 mA

## Introduction

1. The magnetic switch, Type 16B, No. 5, is a sealed, miniature type relay with normal duty contacts; the contact arrangement is two change-over (break before make).

## DESCRIPTION

- 2. This switch (fig. 1) consists of a sealed relay, Type M1100 (Inter-Service Ref. Z530008) secured to a moulded Bakelite base plate having shrouded 6 B.A. terminals. The switch is designed for panel mounting, and is provided with three rubber anti-vibration mountings incorporating 4 B.A. fixing studs.
- **3.** The miniature relay, Type M1100, incorporates an L-shaped pole piece, reduced in

thickness at the armature end to form a step into which the armature fits and pivots on a flat spring attached to the pole piece. An extension on the armature passes along a slot in the long side of the pole piece, and an operating arm, riveted to the armature extension, operates the moving springs of the relay.

**4.** The springset is built up of flat springs with platinum contacts, and the complete assembly is fixed to the armature end of the pole piece. The coil is single wound, and, when energized, attracts the armature to operate the contacts.

(A.L.93, Feb. 57)

#### SERVICING

**5.** Since the switch mechanism is sealed, no servicing is possible apart from a general inspection for freedom from damage and security of connections. The minimum circuit current of 21 mA quoted under Leading

Particulars is that current which must normally be available for operation to ensure an adequate factor of safety; the switch should operate when a test current of 16 mA is applied to terminals a and b.

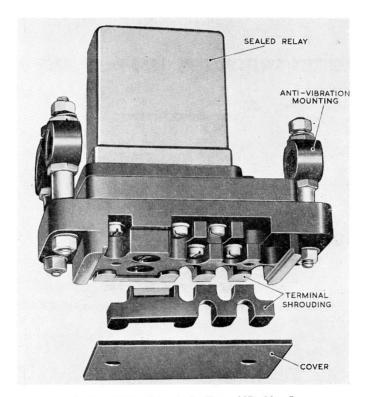


Fig. I. Magnetic switch, Type 16B, No. 5

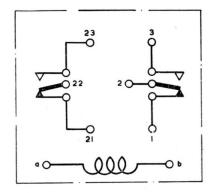


Fig. 2. Circuit diagram