Switches, Micro, Operators
TECHNICAL DATA AND DIMENSIONS

BRITISH PATENT No: 738422
U.S.A. PATENT No: 2828372

BULGIN

MAX. ELECTRICAL DATA @ 50 ~

List Nos.	Making, Carrying & Peak-Breaking A. @ Up to 12V. ≅	@ 125 to 250V. ~	R.M.S. Working V. Across Contacts ; Contacts to E.	Contacts to Drive Means	R.M.S. Proof Test V.* Between Contacts & Contacts to E.	Cont'ts to drive Means
†S.520 to †S.528	6A.	3A.	250V.	250V.	500V.	500V.
				500V.		1KV.
†S.530 to †S.532	4A.	3A.	250V.	250V.	500V.	500V.
				500V.		1KV.

* I.R. is taken @ 500V. = (i.e. D.C.), for ≮ 100MΩ dry or recovered

MECHANICAL DATA

List No.	Colour Code	Nom. Contact Gap	Average Pre-Travel	Max. Differential	Max. Over-Travel	Operating Pressure
†S.520	Red			0·015″ 0·4mm		3–6 ozs.
†S.521	Yellow	0·01″	1/32″	0·015″ 0·4 mm		6–10 ozs.
†S.522	Green	0·25 mm	0·8 mm	0·020″ 0·5 mm	0·025″	10–16 ozs.
†S.524	Yellow	0·02″	1/32″	0·015″ 0·4 mm	0·62 mm	6–10 ozs.
†S.525	Green	0·5 mm	0·8 mm	0·020″ 0·5 mm	(For Longest	10–16 ozs.
†S.527	Yellow	0·03″	1/32″	0·020″ 0·5 mm	Life Limit	6–10 ozs.
†S.528	Green	0·75 mm	0·8 mm	0·030″0·75mm	to 0·010″)	10–16 ozs.
†S.530	Red	0·01″	0·055″		0·050″ 1·3 mm	25–50 gms.
†S.532	Green	0·25 mm	1·4 mm	0·03″ 0·75 mm	preferably 0·025″ 0·62 mm	50–100 gms.

Every model has S.P.C.O. contacting, and so is universal for ON OFF, OFF ON, or CHANGE OVER, giving minimum stocking. Normal Max. and Min. Sinusoidal Rates of Operation (incl. permitted 'pretravel' and 'over travel' for all models).

FASTEST: 1 full cycle of total drive plus total retraction in 0·1 Sec. (100 mS.), =all drive in 0·05 Sec., = 10 cycles of movement per Sec.

SLOWEST: 1 full cycle in 4·0 Sec. = total drive in 2 Sec. = ¼″ C/S.

† **Stainless Steel Button specially to quantity order.** Add /A to List No.

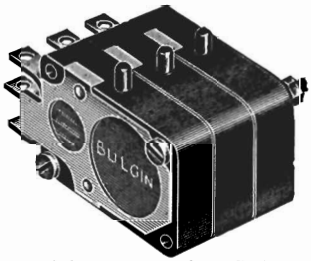
Add Suffix to List No. of Switch	Description
/W.*	Operator-leaf (short) with Stainless Steel **Wire** extension
/L.*	Operator-leaf-**Blade** Nickel-Silver
/L./R.B.* †	Operator-leaf fitted with **Brass Roller**
/L./P.B.* †	Operator-leaf fitted with **Nylon Roller**
/SL./R.B.	Side bracket and integral leaf-operator fitted with **Brass Roller**
SA.2260	**Bracket and Case and Push Button** attachment for S.530 and S.532 **Fixing Dimensions** Bracket and Case: 2× 4 BA. 3·6 mm. ø clearing holes at 2⅜″ 60·3 mm. crs. Push Button: 2 × 8 BA. 2·2 mm. ø clearing holes at 39/64″ 13·9 mm. crs.

* Complete with side brackets and fixing nuts and bolts.

† Brass and Nylon are Standard Roller Materials. Other materials to special order only.

FIXING HOLE DETAILS

4 HOLES 3/32″ (2·4 mm) DIA @ 1″± 0·003 (25·4 mm CR'S. × 5/8″± 0·003 15·9mm)



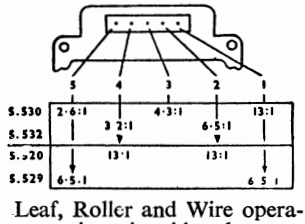
Bulgin'M'type Micro-Switches can easily be stacked in groups, as illustrated above, either plain or when fitted with attachments.

List No: S.530-532

Illustration showing internal mechanism of switch, as seen through new TRANSPARENT covers.

Bulgin Miniature Micro-Switches **List Nos. S.520-528** and **S.530-532** can have side covers which are moulded in clear TRANSPARENT material, which enables the switch mechanism to be inspected, as illustrated above. A small extra charge may be incurred.

DIAGRAM OF LEVERAGES



Leaf, Roller and Wire operators pivot in side plates as illustrated, which are provided with holes giving five different pivot positions. The ratios of the reduction in operating pressure is shown on the above diagram (where 1 = the listed pressure for the basic switch).