

# Switches, Micro with Operators

## TECHNICAL DATA AND DIMENSIONS



### MICRO SWITCHES WITH RESET-BUTTON IN BASE

List No.	Operator Description	Max. Length	Max. Width	Max. Height	Fixing Dimensions	Electrical and Mechanical Data
S.502/Reset	Drive Button and 'Reset' button	1 <sup>5</sup> / <sub>64</sub> " 49·6 mm	3 <sup>3</sup> / <sub>32</sub> " 18·3 mm	2 <sup>5</sup> / <sub>64</sub> " 21·8 mm	2×4 BA. 3·6 mm. ∅ clearing holes at 1" 25·4 mm. centres.	Mechanical Data as below—Elec. Data as type of same List No. without 'Reset', suffix on page 153
S.505/Reset				2 <sup>9</sup> / <sub>32</sub> " 23 mm		

Two models with locking action; return of drive button and contacts is effected by a second 'Reset' button, at base. Only after operation of the reset-button may the drive-button again be depressed to re-operate the switch.

### MECHANICAL DATA

List No.	Approx. Figures in Inches				Min. Force Required to Operate	
	Contact Gap	Operating Button: Average Pre-Travel	Reset-Button Max. Total Travel	Operating Button: Average Total-Travel	Drive-Button	Reset-Button
S.502/Reset	0·07 1·7 mm	0·020 0·5 mm	3 <sup>1</sup> / <sub>32</sub> " 2·4 mm	0·030 0·75 mm	12 ozs	3 ozs.
S.505/Reset	0·07 1·7 mm	0·030 0·75 mm	3 <sup>1</sup> / <sub>32</sub> " 2·4 mm	0·060 1·0 mm	4 ozs.	4 ozs.

### EXTERNAL LEAF OPERATORS

List No.	Operator Description	Max. Length	Max. Width	Max. Height	Fixing Dimensions	Electrical and Mechanical Data
S.506 to S.511	External Blade	2 <sup>25</sup> / <sub>64</sub> " 60·7 mm	3 <sup>3</sup> / <sub>32</sub> " 18·3 mm	1 <sup>1</sup> / <sub>4</sub> " 31·8 mm	2×4 BA. 3·6 mm. ∅ clearing holes at 1" 25·4 mm. centres	Mechanical Data as below, Elec. Data, see page 153. List Nos. S.500—S.505

### MECHANICAL DATA

	List No.	Approx. Figures in Inches				Approx. Figures in Ozs.	
		Contact Gap	Average Pre-travel	Max. Differential	Over-travel	Average Operating Pressure	Average Maintaining Pressure
Medium Pressure	S.506	0·01 0·25 mm	1 <sup>1</sup> / <sub>16</sub> " 1·6 mm	1 <sup>1</sup> / <sub>16</sub> " ·4 mm	1 <sup>1</sup> / <sub>32</sub> " ·8 mm	4—5	2
	S.507	0·04 1·0 mm	1 <sup>1</sup> / <sub>16</sub> " 1·6 mm	1 <sup>1</sup> / <sub>32</sub> " ·8 mm	1 <sup>1</sup> / <sub>32</sub> " ·8 mm	5—7	2
	S.508	0·07 1·7 mm	1 <sup>1</sup> / <sub>16</sub> " 1·6 mm	1 <sup>1</sup> / <sub>16</sub> " 1·6 mm	1 <sup>1</sup> / <sub>32</sub> " ·8 mm	6—8	3
Light Pressure	S.509	0·01 0·25 mm	1 <sup>1</sup> / <sub>8</sub> " 3·2 mm	1 <sup>1</sup> / <sub>32</sub> " ·8 mm	1 <sup>1</sup> / <sub>16</sub> " 1·6 mm	1½—3	1
	S.510	0·04 1·0 mm	1 <sup>1</sup> / <sub>8</sub> " 3·2 mm	3 <sup>1</sup> / <sub>16</sub> " 2 mm	1 <sup>1</sup> / <sub>16</sub> " 1·6 mm	1½—3	1
	S.511	0·07 1·7 mm	1 <sup>1</sup> / <sub>8</sub> " 3·2 mm	3 <sup>1</sup> / <sub>32</sub> " 2·4 mm	1 <sup>1</sup> / <sub>16</sub> " 1·6 mm	1½—3½	1

Notes: Column 2: Working tolerance, ± 25%. Column 3: Subject to approx. ± 33 1/3% variation. 'Pre-travel' is all the movement of the button before the contacts snap over. Column 4: The normal max. figure; 'Differential' is reversed movement to restore the contacts to the unoperated state. Column 5: This is the max. movement allowable to users, as further depression of the button after the action has snapped over. Some switches may possess more over-travel, but greater figures are not guaranteed

### ROLLER ATTACHMENTS FOR S.506—S.511

List No.	Operator Description	Max. Length	Max. Width	Max. Height	Fixing Dimensions	Electrical and Mechanical Data
S.506 to S.511	Nylon †	2 <sup>31</sup> / <sub>64</sub> " 63·7 mm	3 <sup>3</sup> / <sub>32</sub> " 18·3 mm	1 <sup>13</sup> / <sub>64</sub> " 42·5 mm	2×4 BA. 3·6 mm. ∅ clearing holes at 1" 25·4 mm. centres	As List No: S.506—S.511 above
	Brass †					

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

### ONE-WAY ROLLER-LEAF OPERATOR

List No.	Operator Description	Max. Length	Max. Width	Max. Height	Fixing Dimensions	Electrical and Mechanical Data
S.509—S.511/ RB—1W.	Brass Roller	1 <sup>1</sup> / <sub>64</sub> " 49·6 mm	3 <sup>3</sup> / <sub>32</sub> " 18·3 mm	1 <sup>27</sup> / <sub>32</sub> " 46·8 mm	2×4 BA. 3·6 mm. ∅ clearing holes at 1" 25·4 mm. centres	As List No: S.509—S.511 above

As S.509/S.511 but with one-way Roller-leaf operator. When the user's cam-face or other driving device strokes the roller away from the switch (correctly) the switch operates; reversing stroke, however, only displaces the hinged roller-mounting and the switch does not operate. Order as S.509/RB-1W etc.