

## General Information:

These 36 position switches increase the range of moulded wafer models by providing a switching capacity of 1 pole upto 35 ways. The stators are moulded from glass fibre loaded diallylphthalate.

## Electrical Characteristics:

Maximum working voltage,	300Vac or dc .
Contact rating, Current carrying	2amp continuous.
Current breaking with a resistive/non-reactive load.	50mA at 300Vdc/ac (rms).
	500mA at 30Vdc/ac (rms).
Proof Voltage.	1,000Vrms at sea level. for 1 min.
Insulation resistance. (live terminals to frame or between circuits)	10 <sup>6</sup> megohms at 500 Vdc.
Contact resistance.	10 milliohms maximum.

## Maximum Switching Per Wafer:

1 Pole.	2 to 35 ways
2 Poles	2 to 17 ways
3 Poles	2 to 11 ways
4 Poles	2 to 8 ways
6 Poles	2 to 5 ways
8 Poles	2 or 3 ways
9 Poles	2 or 3 ways
12 Poles	2 ways

## Index Mechanism:

The standard mechanism used with model ML wafers is the type 'UB'. This provides balanced pressure indexing and, with a low friction moulded cam and plunger, a smoother positive action. The consistent torque values range from 90 to 490 mNm (13-70 oz. Ins.)

## Contacts:

Brass, silver plated; silver alloy contacts are available at an extra cost.

## Rotor Contacts:

Standard - make before break.  
To order - break before make (20° indexing only)

## Insulation:

Stator - moulded glass fibre loaded diallylphthalate.  
Rotor - polycarbonate.

## Finish:

Standard - index spring, stainless steel; other ferrous parts zinc plated, non ferrous parts clean.

## Mounting Details:

<u>Imperial (standard).</u>	<u>Metric (alternative)</u>
Bush 3/8" x 32TPI (Whit.)	M10 x 0.75.
Shaft 0.25" dia.	6mm, dia.
Nut 0.525" A/F.	14mm A/F.

The alternative is optional in each case.

Unless otherwise specified, each switch is supplied with a wavy lock washer.

Panel and spindle seals can be fitted allowing sealing to 1cm<sup>3</sup>/hr.

## Standard Contacts:

Please refer to our standard contact arrangements and use these whenever possible.

## Construction:

The switch wafers are spaced by tubular metal spacers and held in place, with a positive relationship to the index mechanism assembly, by side strut screws.

## Note:

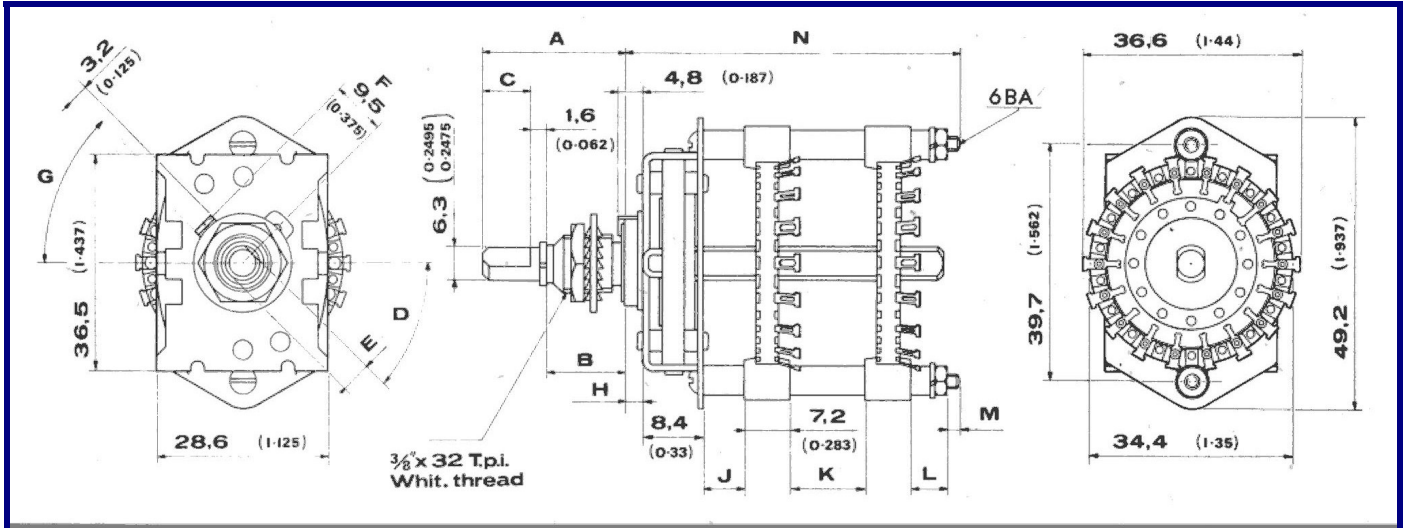
### Rotor Blades.

Standard switches are make-before-break type in which connection is maintained with one contact until after the next contact is made.

Break-before-make switches, which break connection with one contact before the next contact is made, are available to order.

"Front" is when the switch is viewed from the knob end.

*Dimensions Are In Millimetres*



## Key To Details

- |  |   |
|--|---|
| A. Shaft length: optional $\pm 0.40$ (0.016") (25mm if not specified)  | H. Bush shoulder; Standard 3.2mm (0.125")   |
| B. Bushing thread length: preferred standard 9.5 (0.375"); 6.35 (0.250") available as an alternative. Special lengths if necessary   | I. Front spacer: If not clips on front side of first section, 1.6mm (0.062") min. If clips on front side of first section 4.8mm (0.187") min. Otherwise may be any length within switch specifications. |
| C. Flat length: length to specification. Tolerance $\pm 0.40$ (0.016"). Special shaft terminations may be provided to special requirements.                                | J. Spacers - minimum dimensions.<br>With clips facing away, or flat clips. NIL<br>With clips facing same direction. 2.40 (0.093")<br>With clips facing each other. 6.35 (0.250")                        |
| D. Angle of flat: to specification $\pm 2^\circ$ ; specify position of flat, with switch shaft in <b>fully anti-clockwise</b> position when viewed from front or knob end. | M. If no spacer 3.97mm (0.156") Any length of spacer may be inserted at this point.   |
| E. Flat thickness: standard $5.55 \pm 0.15$ (0.218" $\pm 0.005$ ") for grub screws; $4.95 \pm 0.05$ (0.195" $\pm 0.002$ ") for push-on knobs.                              | N. Thread extension : 3mm x M2,5 any length desired   |
| F. Distance of locating lug from centre of shaft (centre line to centre line) 9.5mm (0.375")   | P. Specify maximum overall length if important.   |
| G. Angle of locating lug: Available angles $45^\circ$ or $135^\circ$ .   |   |