



General Information:

With moulded stators and 24 switching positions per section, this switch is particularly suitable for applications where space is at a premium. The 'U' balanced pressure indexing mechanism with its low friction moulded cam and plunger provides a smooth positive action with consistent and reproducible torque. 15° indexing is standard. Optional features include insulated or concentric shafts, panel and spindle seals, rigid tags for printed circuit connections.

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)	5000 megohms min.
Contact resistance.	80 milliohms maximum.
<i>Standard Contact Arrangements:</i>	
Please refer to our standard contact arrangements and use these whenever possible.	

Maximum Switching Per Section:

1 Pole.	24 positions.
1 Pole.	2 to 23 positions and off
2 Pole.	2 to 11 positions and off
3 Pole.	2 to 7 positions and off
4 Pole.	2 to 5 positions and off
6 Pole.	2 to 3 positions and off
8 Pole.	2 positions and off

Index Mechanism:

The 'U' mechanism with low friction cam followers and plungers is standard with 15° indexing. Cams for 30°, 45° or 60° indexing are also available. A satisfactory operating life in excess of 50,000 complete cycles is obtained with torque values from 13 to 70oz.ins. Bulletin No. 27 gives further details of this mechanism. The 'UB' mechanism incorporates a back plate fitted to the 'U' type mechanism.

Contacts & Termination's:

Clips.	-	Silver plated spring brass.
Rotor blades.	-	Hard brass silver plated.
		Spring silver alloy clips and blades, also other special finishes are available to order.

Insulation:

Stator.	-	Moulded glass fibre loaded Diallylphalate.
Rotor.	-	Polycarbonate.

Finish:

Index Springs, Stainless steel: other metal parts, passivated zinc plated. Other finishes to order.

Mounting Details:

Imperial (standard).	Metric (alternative)
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 1cm³/hr.	

Optional Features:

Switches can be supplied, to specification, with dual concentric or insulated shafts, shields, adjustable and / or fixed stops and rigid tags for printed circuit connections.

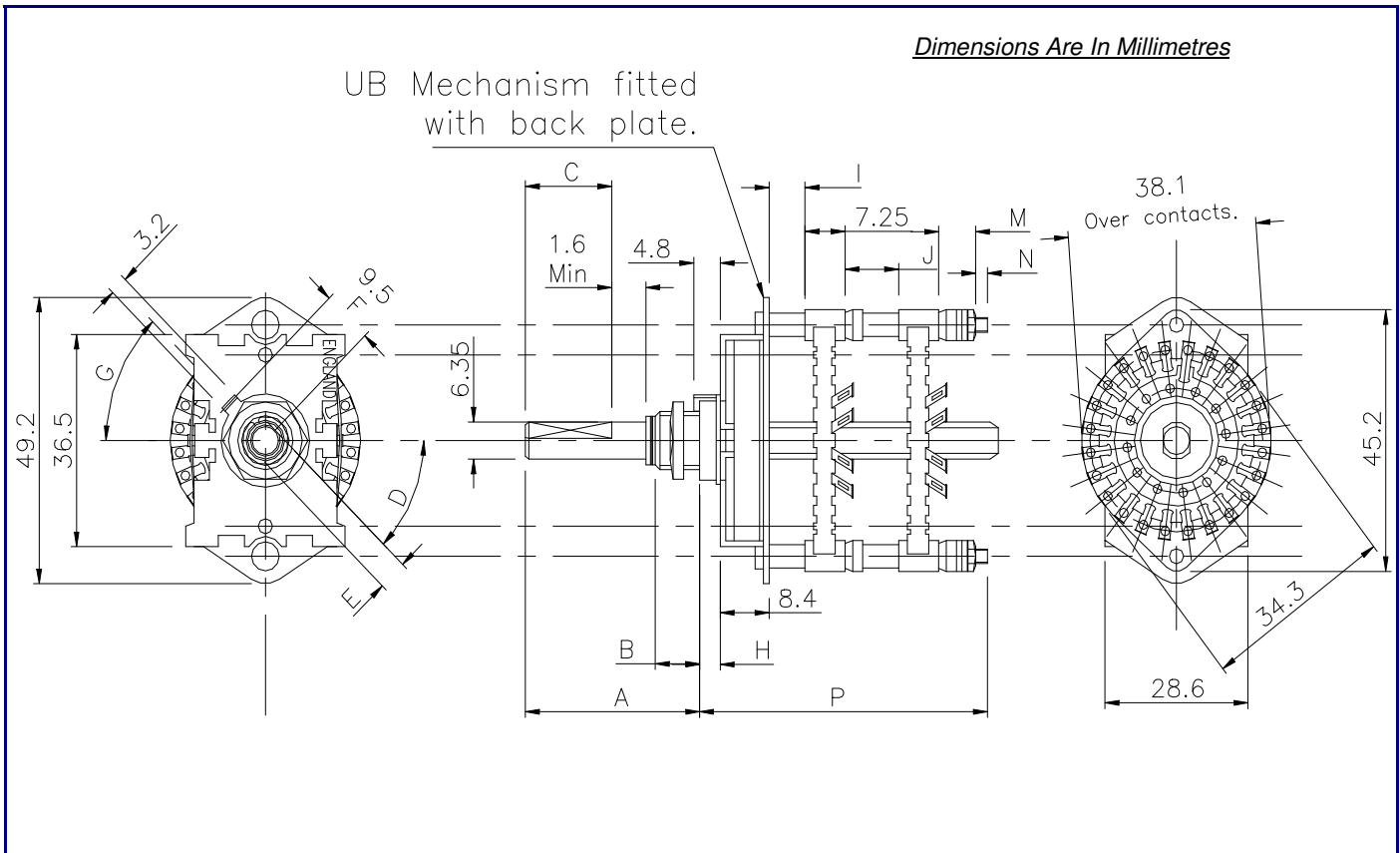
Note:

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.



Key To Details

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| A. Shaft length: optional ± 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 ± 0.40 (0.016"). Special shaft terminations may be provided to special requirements. | J. Spacers - minimum dimensions.
With clips facing away, or flat clips. NIL
With clips facing same direction. 2.40 (0.093")
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 fully anti-clockwise 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 ± 0.15 (0.218" ± 0.005 ") for grub screws; 4.95 ± 0.05 (0.195" ± 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° or 135° . | |