

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.

Maximum Switching Per Wafer.

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

Characteristics. Electrical,
 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.

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.

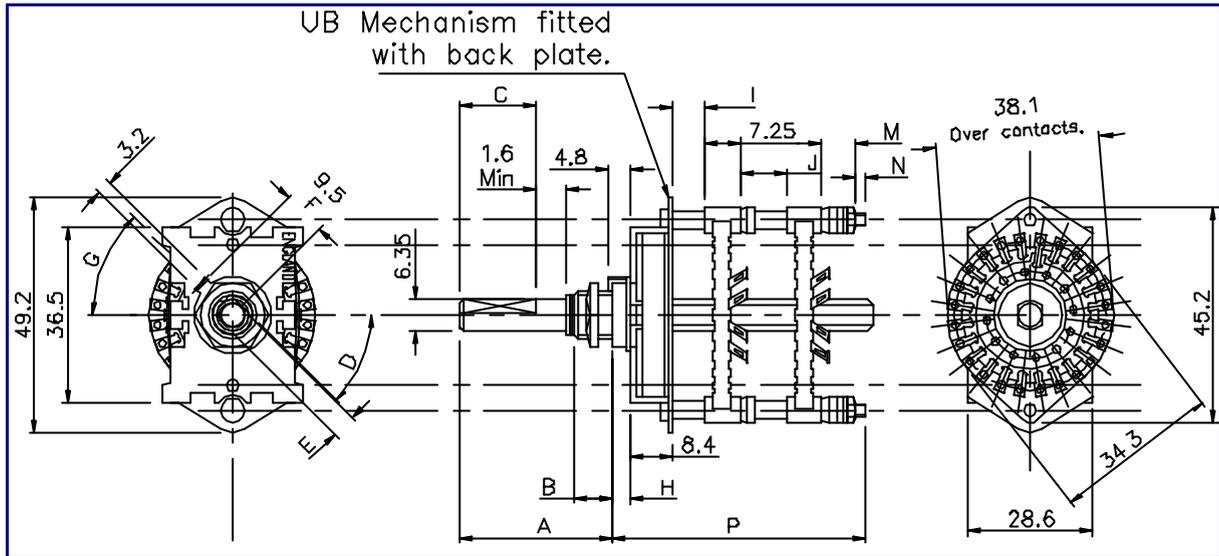
Insulation. Stator. - Moulded glass fibre loaded Diallylphalate.
 Rotor. - Polycarbonate.

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

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.

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 an internal tooth steel 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.



Dimensions Are In Millimetres

Key To Details

- | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A. Shaft length: optional ± 0.40 mm</p> <p>B. Bushing thread length: preferred standard 9.5; 6.35 available as an alternative. Special lengths if necessary</p> <p>C. Flat length: length to specification. Tolerance ± 0.40mm Special shaft termination's may be provided to special requirements.</p> <p>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.</p> <p>E. Flat thickness: standard $5.55 \text{ mm} \pm 0.15$ for grub screws; $4.95 \text{ mm} \pm 0.05$ for push-on knobs.</p> <p>F. Distance of locating lug from centre of shaft (centre line to centre line) 9.5 mm</p> <p>G.. Angle of locating lug: Available angles 45° or 135°.</p> | <p>H. Bush shoulder; Standard 3.2 mm</p> <p>I. Front spacer: If not clips on front side of first section, 2.0mm min. If clips on front side of first section 5.0 mm min. Otherwise may be any length within switch specifications.</p> <p>J. Spacers - minimum dimensions.
With clips facing away, or flat clips. NIL
With clips facing same direction. 3.0 mm
With clips facing each other. 6.0 mm</p> <p>M. If no spacer 4.0mm Any length of spacer may be inserted at this point.</p> <p>N. Thread extension : 3mm x M2,5 any length desired</p> <p>P. Specify maximum overall length if important.</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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.