



General Information:

These switches have 32mm (1.26") diameter moulded wafers with 22 contact positions providing up to 12 switching positions. The stators are moulded from glass fibre loaded diallylphthalate. Optional features include concentric shafts, panel and spindle seals and rigid terminations for printed circuit connections.

Characteristics:

Electrical:

Maximum working voltage	300Vac/dc.
<i>Contact rating,</i> Current carrying breaking with a resistive/non-reactive load.	5amp continuous. 60mA at 250Vdc. 150mA at 250Vac (rms). 500mA at 30Vac/dc (rms).
Proof Voltage.	1000Vrms at sea level.
Insulation resistance.	Not less than 2 Gohms. (between any 2 parts requiring electrical insulation)
Contact resistance (initial).	10 milliohms maximum. 100mA. max.

Maximum Switching Per Wafer: (30° Indexing)

<u>No. of Poles.</u>	<u>Positions.</u>
1 Pole.	2 to 12 ways
2 Pole.	2 to 9 ways
3 Pole.	2 to 5 ways
4 Pole.	2 to 4 ways
5 Pole.	2 to 3 ways
6 & 7 Pole	2 ways

Index Mechanism:

The preferred mechanism used with the MK wafers is the Type MU providing indexing angles of 30°, 45° and 60°. Torque ranges available are:

Light: 7 to 14 x 10⁻² Nm (10 to 20 oz, ins.) Medium: 14 to 28 x 10⁻² Nm (20 to 40 oz, ins.)

High: 8 to 35 x 10⁻² Nm (40 to 50 oz, ins.)

Other mechanisms which may be used as alternatives are:-

Heavy Duty when torque in excess of 0,35 Nm up to 0.63Nm (90 oz, in.) is required or where locating pins are preferred to lugs, on 15,1mm (0.6") radius.

Type 'UB' when torque values up to 0.49Nm (70 oz, in.) are required.

Type 'J' where additional locating lug angles of 0°, or 180° are specified, also where radius of 13,5mm (0.53") is required.

Contacts & Termination's:

Standard.	-	Silver plated brass.
Alternatives.	-	Hard gold plated or silver alloy contacts are available at extra cost as are contacts with gold flash.
Termination's.	-	Forward, standard: Straight, alternative.

Rotor Blades:

Standard .	-	Shorting. (make before break. MBB.)
Alternative.	-	Non-shorting. (break before make. BBM.)

Insulation:

Stator.	-	Moulded glass fibre loaded diallylphthalate (DAP)
Rotor.	-	Polycarbonate.

Finish:

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

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 wavey lock washer.

Construction:

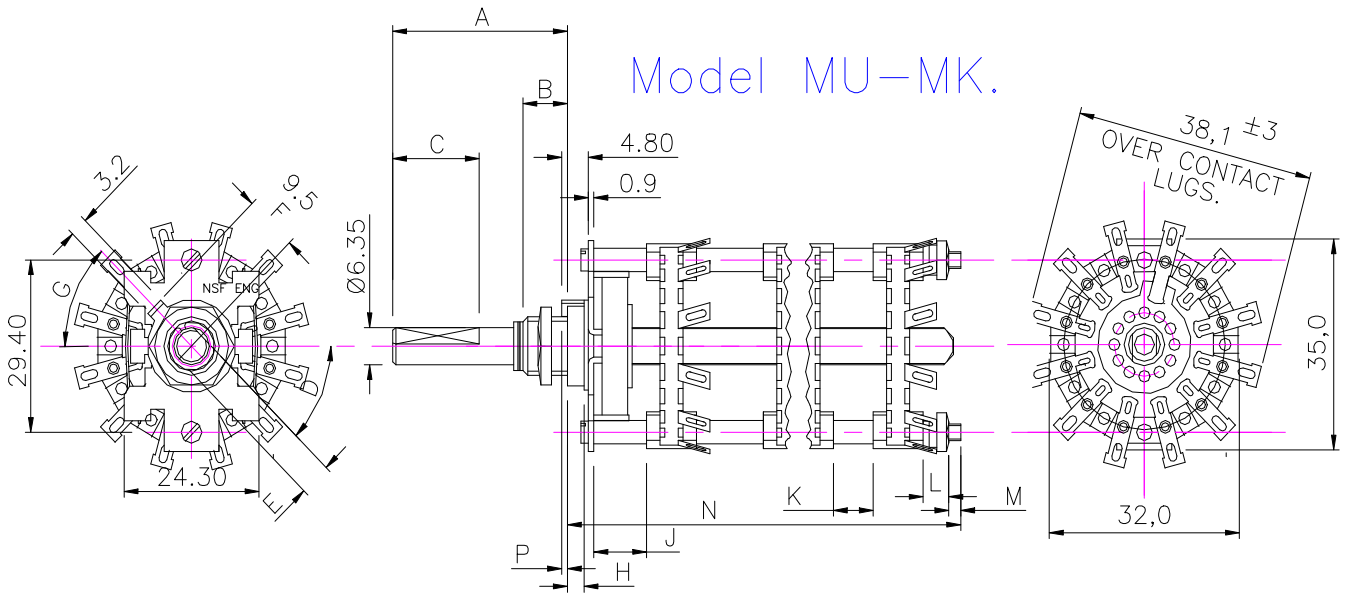
The switch wafers are spaced by tubular metal spacers and held in place, with a positive relationship to the index mechanism, by side strut screws.

Alternative Shafts:

Concentric shafts - dual concentric shafts and mechanisms for dual switching applications, also with hollow independent drive of other devices by 1/8" concentric shaft.

Dimensions Are In Millimetres

Model MU-MK.



Key To Details

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| <p>A. Shaft length: optional ± 0.40 (0.016") (25mm if not specified)</p> <p>B. Bushing thread length: preferred standard 9.5 (0.375"); 6.35 (0.250") available as an alternative. Special lengths if necessary</p> <p>C. Flat length: length to specification. Tolerance ± 0.40 (0.016"). Special shaft terminations 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 ± 0.15 (0.218" ± 0.005") for grub screws; 4.95 ± 0.05 (0.195" ± 0.002") for push-on knobs.</p> <p>F. Distance of locating lug from shaft, centre line to centre line.</p> <p>G. Angle of locating lug: type MU mechanism; 45°, 135°, 225° and 315° from horizontal centre line; type A mechanism also includes 0° and 180° as viewed.</p> | <p>H. Bushing shoulder; standard 3,2 (0.125")</p> <p>J. Front spacer, minimum dimension: MU-MA 9,5 (0.375"), A-MA 4,8 (0.187").</p> <p>K. Other spacers: minimum dimensions.
 Clips facing same direction NIL.
 Clips facing away or flat clips NIL.
 Clips facing each other 3.2 (0.125")</p> <p>L. If no spacer 2,4 (0.093"). Any length spacer desired may be inserted at this point.</p> <p>M. Thread extension: 1/8"(min) x M2 x 0,4 any length desired.</p> <p>P. Standard locating lug lengths:
 MU-MA, unsealed, projects 1.6 (0.062") beyond mounting face; sealed, 0,05/0,15 (0.002"/0.006") below mounting face;
 A-MA, projects 4,8 (0.187") beyond mounting face.</p> |
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