TC Rotary Wafer Switch

General Specifications:

Model TC has excellent characteristics and has many applications in special test equipment, tank circuits and low power transmitters.

- **Maximum Operating Voltage:** 3KV dc / 3KV rms at 1 MHz at normal atmospheric pressure; 1.5KV rms at 1MHz at atmospheric pressure of 120cms
- **Contact Rating - Switching:** 3KV dc 250 microamps; 300VA at 20MHz (Max current 2.5A; voltage 2KV rms)
- **Contact Rating - Carrying:** 20A continuous
- **Proof Voltage:** 8KV dc at normal atmospheric pressure
- **Insulation Resistance:** 10^5 Gohms at 500Vdc
- **Contact Resistance:** Less than 5 milliohms

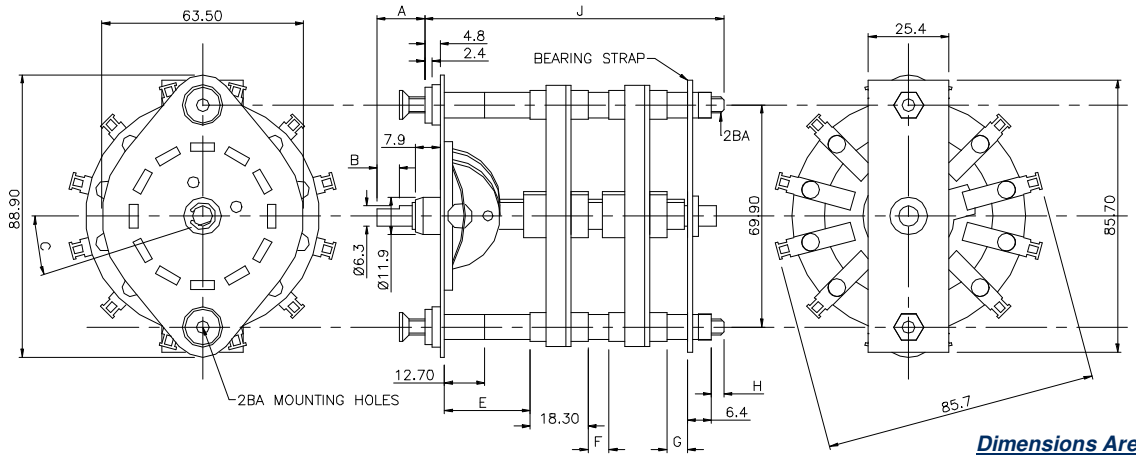
Maximum No of Wafers & Switching	
Approximately 8 wafers maximum, depending on specification	
Due to the construction of the rotor, maximum switching is limited to:	
1 Pole	2 to 11 Positions per Wafer

Contacts:
Clips - Silver plated, silver faced bi-metal
Rotor Blades - Silver faced phosphor bronze
Standard - shorting (make before break)
Optional - non-shorting (break before make)

Insulation: Highest grade, low loss, silicone impregnated ceramic

Finish: All ferrous parts, except index spring and balls, zinc plated and passivated

Mounting: Unless otherwise specified, supplied complete with 2BA x ¼" screws with countersunk heads



Dimensions Are In Millimetres

Key To Details

A	**Shaft Length:**	Optional ± 0.40 (0.016") / (25mm if not specified)
B	**Flat Length:**	To specification ± 0.40 (0.016") Special shaft terminations may be provided to special requirements
C	**Angle of Flat:**	To specification ± 2°. Specify position of flat, with switch shaft in **fully anti-clockwise** position when viewed from front or knob end
D	**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
E	**First Spacer:**	23.8 (0.937") minimum
F	**Intermediate Spacers:**	15.9 (0.625") minimum
G	**Spacer Length:**	If no spacer 9.5 (0.375"). Any length spacer may be inserted at this point
H	**Thread Extension:**	2BA any length to specification
I	**Overall Length:**	Specify maximum overall length if important

Please Note: In line with continued development we reserve the right to amend specification without prior notice (Rev 01/12)

NSF Controls Ltd | Ingrow Bridge Works | Keighley | West Yorkshire | BD21 5EF | UK | Registered in England No. 3378269

T: +44 (0) 1535 661 144 | F: +44 (0) 1535 661 474 | E: info@nsfcontrols.co.uk | www.nsfcontrols.co.uk