TYPE DC

10, 12 or 16 positions

FEATURES

Gold contacts for electrical stability
Long operational life
Balanced positive indexing
100% electrically tested
Stainless steel spindles
Wide operating temperature range
Multi wafer

TECHNICAL SPECIFICATION

Electrical Specifications

Contact Rating:- Switching	5VA dc. 10VA ac. (1A max) resistive
Continuous	2A
Proof Voltage (for 1 min.)	1000 d.c. volts peak, adjacent terminals 2000 volts peak all terminals to frame
Insulation Resistance	500MΩ minimum at 500 volts dc.
Contact resistance	50mΩ maximum initial at the terminations measured at 100mV, 100mA. 20mΩ maximum increase after 20,000 cycles of operation at 85°
Capacitance	3pf adjacent terminals
Switching per Wafer (see tables of standard wafers)	1, 2, 4 or 6 poles (1 or 2 poles on 10 position) with shorting (make before break) or non-shorting (break before make) switching

Mechanical Specifications

Endurance (Electrical)	20,000 cycles (1 cycle is full rotation in both directions) minimum, at upper temperature category and electrical load.
Endurance (Mechanical)	50,000 cycles
No. of Positions (With or Without End Stops).	16 maximum at 22½° 12 maximum at 30° 10 maximum at 36°
Operating Torque	Light - .028/.112Nm Medium - .084/.168Nm Heavy - .14/.336Nm
End Stop Strength	1.13Nm
Temperature Range	-40°C/+85°C pillar terminals
Terminal Strength	Tensile test load 10N
Sealing	Spindle & panel seal option max. leakage 1ml/hour.
Switch Mounting	Panel mounting via M7 or M10 threaded bush.
Number of Wafers	5 maximum
Operating Spindle	4.0DIA or 6.0DIA.
Dual Concentric Operation	Consult WASP for available options.

Materials and Finishes

Switch Wafer	Copper clad epoxy glass laminate etched & finish electroplated nickel 5µm & hard (150 VPN) gold 2.5µm min in contact area remainder in gold flash
Terminals	Hard brass nickel & tin-lead plated for subsequent solderability.
Wiping Contact	Brass electroplated nickel 5µm & finished in hard gold 1.5µm. (36° version contact is fine silver)
Contact Pressure Spring	Stainless steel coil spring (36° version Be Cu flat spring)
Contact Rotor Moulding	Glass filled nylon 66
Mechanism Mouldings	Glass filled nylon 66
Mechanism Rollers	Stainless steel
Mechanism Thrust Plates	Stainless steel
Mechanism Springs	Stainless steel
Spindle	Stainless steel 18/8
Sealing Rings	Panel seal in nitrile spindle seals (2) in silicone
Mounting Bush	Brass electroplated

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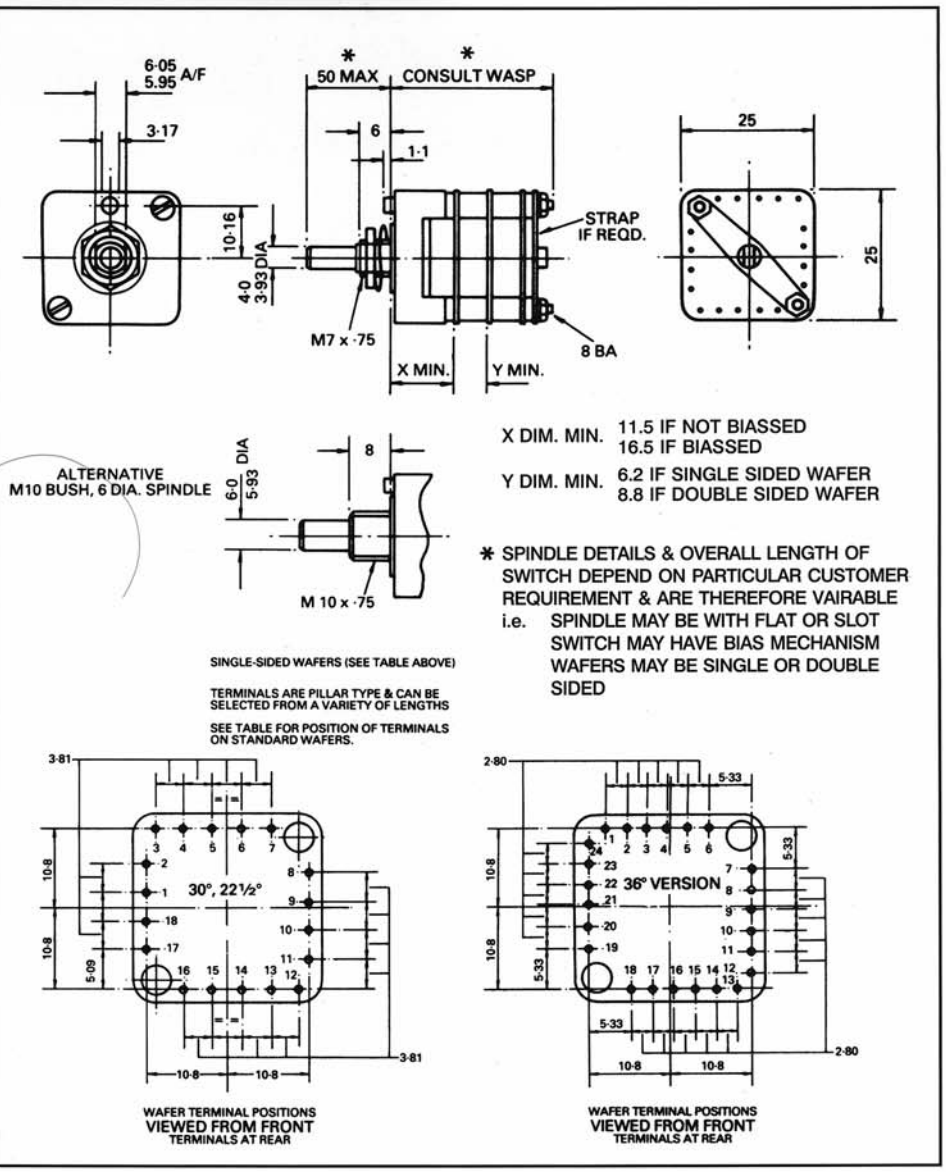
WASP
SWITCHING PRODUCTS

TYPE DC

Dimensions in mm



TERMINAL IDENTIFICATION FOR STANDARD WAFERS			
SWITCH INDEX ANGLE	WAFER TYPE	POLE TERMINALS	OUTPUT TERMINALS
30°	1 pole SH. or NS.	18	1,2,4,5,9,11,12,13,14,15,16
	2 pole SH. or NS.	5,14	6,7,8,9,10,13 - 15,16,17,18,2,4
	4 pole SH. only	5,9,14,18	6,7,8 - 10,11,13 - 15,16,17 - 1,2,4
	6 pole NS. only	1,4,7,10,13,16	18,2 - 3,5 - 6,8 - 9,11 - 12,14 - 15,17
22½°	1 pole NS. only	14	15,16,17,18,1,2,4,5,6,7,8,9,10,11,12,13

36° INDEXING	TERMINAL IDENTIFICATION FOR STANDARD WAFERS				
	WAFER TYPE	POLE TERMINALS		OUTPUT TERMINALS	
		FRONT	REAR	FRONT	REAR
	1 POLE	24		2, 4, 6, 8, 10, 14, 16, 18, 20, 22	1, 3, 5, 7, 9, 13, 15, 17, 19, 21
	2 POLE	24	23		
	4 POLE	24, 12	23, 11		

WASP
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