

ROTARY SWITCHES

TYPE DF

Binary Rotary Switch

FEATURES

- Spindle and panel sealed
- Gold contacts
- Enclosed contact chamber
- Balanced positive indexing
- Terminals for pcb mounting
- Robust construction
- High grade insulation materials
- 100% electrically tested
- Wide operating temperature range



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	500M Ω minimum at 500 volts dc.
Contact resistance	60m Ω maximum initial at the terminations measured at 100mV, 100mA. 20m Ω maximum increase after 20,000 cycles of operation at 85°
Capacitance	3pf adjacent terminals
Switching per Wafer	See available switching table

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).	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
Terminations	Pins for P.C. mounting
Terminal Strength	Tensile test load 10N
Sealing	Spindle & panel seal option max. leakage 1ml/hour.
Switch Mounting	Panel mounting via M10 threaded bush.
Operating Spindle	6.0DIA. plain

MATERIALS AND FINISHES

Switch Wafer	Copper clad epoxy glass laminate etched & finish electroplated nickel 5 μ m & hard (150 VPN) gold 2.5 μ m min in contact area remainder in gold flash
Terminals	Hard brass silver plated
Wiping Contact	Brass electroplated nickel 5 μ m & finished in hard gold 1.5 μ m.
Contact Pressure Spring	Stainless steel coil spring
Contact Rotor Moulding	Glass filled nylon 66
Terminal Housing	Acetal

Mechanism Mouldings	Glass filled nylon 66
Mechanism Rollers	Stainless steel
Mechanism Thrust Plates	
Mechanism Springs	
Spindle	
Sealing Rings	Panel seal in nitrile spindle seals (2) in silicone
Mounting Bush	Brass electroplated

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