9000 Series *Incremental Shaft Encoder*

Features:

- Low Cost
- Short Circuit Resistant Outputs
- Rugged Design to Industry Standard
- Low Power Consumption
- Shock Resistant

Mechanical Characteristics

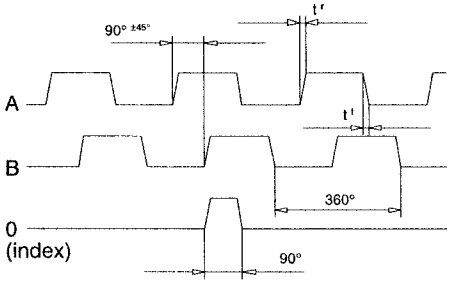
Speed:	max. 6000 RPM
Rotor Moment of Inertia:	15 x 10^{-6} kgm^2
Torque:	<0.05 Nm
Radial Load Capacity of Shaft:	70 N (at shaft end)
Axial Load Capacity of Shaft:	35 N
Weight:	Approx. 1.2 kg
Protective System to DIN 40.050:	Shaft IP66, Cover (IP50 w/ connector)
Operating Temperature Range:	0° C to +50° C (-20 °C to 70°C above 600 PPR)
Shaft:	Stainless Steel

Electrical Characteristics

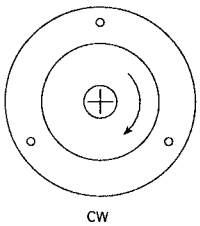
Output Circuit:	Push-Pull Circuit
Supply Power:	10-30 VDC
Current Consumption: (no load)	max. 50 mA (75 mA with reference)
Permissible Load / Channel:	max. ±30 mA
Pulse Frequency:	max. 20 kHz (100 kHz above 600 PPR)
Signal Level High @ 30 mA:	Supply Voltage minus 2.5V (7.5 to 27.5V)
Signal Level Low @ 30 mA:	max. 1.5V
Signal Level Low @ 1 mA	max. .7V
Rise Time:	max. 1 μS
Fall Time:	max. 1 μS
Short Circuit Proof Output:	yes
Standard Pulses Per Revolution	60, 250, 600
Available Pulses per Revolution	96, 100, 120, 125, 127,150, 180, 200, 216, 220, 240, 250, 254, 256, 280, 300, 360, 400, 420, 450, 500, 512, 600, 625, 720, 750, 900, 1000, 1024, 1250, 1270, 1500, 1800, 2000, 2048, 2400, 2500, 3000, 3600, 4000, 4096, 5000
Other Pulses Per Revolution available upon request	Consult Factory

Approvals: CE

Pulse Pattern

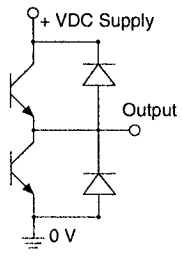


Direction of Rotation



Output Circuit

Push-Pull



ENCODERS