

MS 650

MULTITURN-ENCODER SSI

Small and Compact

Multi-Turn

SSI (Synchronous Serial Interface)

Programmable Encoder Parameters

Standard Interchangeable Mounting Flanges



ELECTRICAL SPECIFICATIONS

Encoder Capacity	max. 25 Bit
Steps/Revolution	8192 Steps/Rev
Number of Revolutions	4096 Revolution
Supply Voltage	11 - 27 V DC
Power Dissipation (No Load)	< 4 Watt
Programming via RS485	IBM Compatible EPROG Software, PT 100 Programming Terminal
Output Code (programmable)	Binary, BCD, Gray, Shifted Gray, Excess3, Shifted Excess3
Clock Input	Opto Coupler Isolated
Clock Frequency	95 kHz - 1 MHz
Transmission Cable Length	Dependent on Cable Cross Section, Shielding, Clock Frequency etc...
Data Output	RS422 (2 wire)
Output Format	Standard, Tree Format, with Repetition
Pin Configuration	Upon Request

MECHANICAL SPECIFICATIONS

Max. Rotational Speed	6000 RPM
Max. Load on Shaft	40 N Axial, 60 N Radial (at end of shaft)
Lifetime on Bearings	3.9 x 10 ¹⁰ Revolutions at:
· Operational Speed	3000 RPM
· Load on Shaft	20 N Axial, 30 N Radial (at end of shaft)
· Operating Temperature	60°C (140°F)
Weight	0.7 kg (1.5 lb.)
Max. Angular Acceleration	≤ 10 ⁴ rad/s ²
Momentum of Inertia	2.5 x 10 ⁶ kg m ²
Startup Momentum at 20°C (68°F)	2 Ncm
Vibration (50-2000 Hz Sinusoidal)	
DIN IEC 68-2-6	≤ 100 m/s ² (10g)
Shock (11ms) DIN IEC 68-2-27	≤ 100 m/s ² (100g)
Standard Connector	12 pin Contact Connector - Axial

OUTPUT SIGNALS



