Series 260

Design Features

The Series 260 low-profile 30mm package design makes it a perfect solution for many machine and motor applications, and features a complete through-shaft design. The Series 260 and its integral bearing-set provide for stable and consistent operation, without concerns for axial or radial shaft runout. The standard 100˚ C temperature capability allows servo motors to operate at higher power outputs and duty cycles.

Specifications

Input Voltage range	**5/24V**
Regulation, for 5V operation	**5%, with 2% maximum ripple**
Current consumption	**80mA typical**
Output circuits	**5/24V Line Driver**
Frequency response	**200 KHz standard**
Symmetry	**180° electrical ±5% (9°^{e})**
Quadrature Phasing	**90° electrical ±10% (9°^{e})**
Minimum edge separation	**72° electrical**
Reference marker pulse	**Gated (A • Z = F)**
Rise time	**Less than 1 microsecond**
Accuracy (cycle to cycle)	**±0.017° or 1 Arc/Min**
LED life	**100,000 hrs typical**
Pulses per revolution	**See ordering information**
Max shaft speed	**7,500 rpm continuous**
Shaft sizes and types	**See ordering information**
Shaft tolerance	**H7, sliding fit for g6**
Bearings	**ABEC 3**

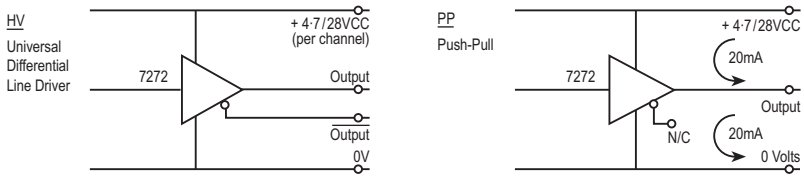
Starting torque	**0.002 Nm**
User radial shaft runout	**0.15mm max TIR**
User axial shaft end play	**±0.7mm**
Radial loading	**Being the mass of the encoder**
Axial loading	**Being the mass of the encoder**
Moment of inertia	**50 g/cm**
Acceleration	**10^5 radians/sec^2**
Weight	**0.25 Kg**
Housing	**Aluminum w/protective finish**
Operating temperature	**0°C to +100°C**
	–40°C to +70°C by special order*
Storage temperature	**–25°C to +120°C**
Humidity	**98% RHNC**
Vibration	**10 G's @ 58 to 500 Hz**
Shock	**50 G's for 11 mSec**
Protection	**IP50 standard**
	IP64 w/seal (S6T)

Ordering Information

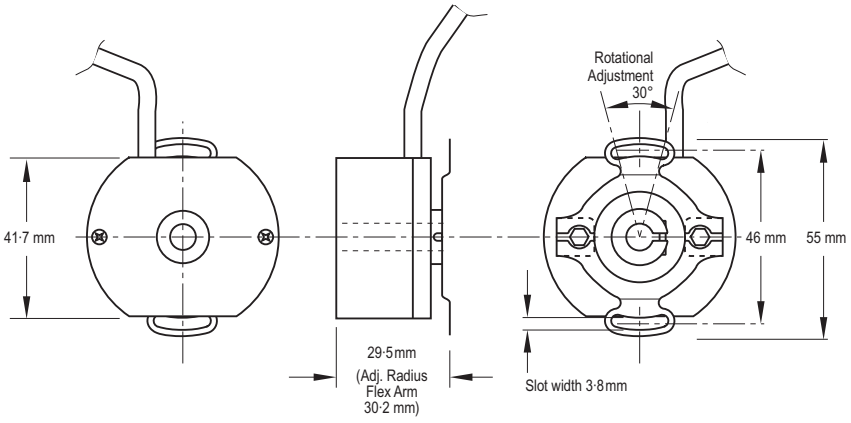
260	Range	Shaft	VCC/Output Circuit	PPR	Sealing	Fixing
	1 = 0010 to 1250 2 = 2000 to 2500	4T = 6mm Bore 5T = 10mm Bore 8T = 8mm Bore 9T = 12mm Bore OT = 14mm Bore AT = 0.5" Bore 1T = 0.25" Bore 2T = 0.375" Bore	HV = 5/24V RS422 Differential Driver PP = 5/24V Push Pull	See Pages 48 & 49 Table B	STD = Standard S6T = IP64	S = Standard slotted fixing A = Adjustable radius fixing

* Call the Sales Office for Low Operating Temperature options

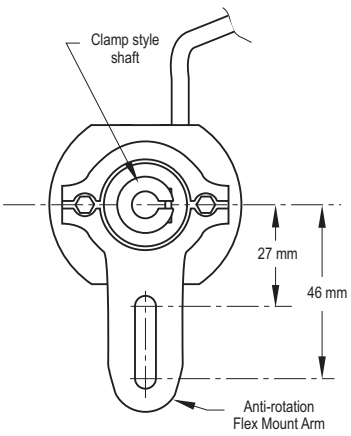
Output Circuits



Dimensions



Standard Slotted Fixing



Adjustable Radius Fixing