

Series 260

Design Features

The Series 260 low-profile 30mm package design makes it a perfect solution for many machine and motor applications. It is available in two options: a blind hollow bore; and 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 (see output circuits)	Starting torque	0.002 Nm
Regulation, for 5V operation	5%, with 2% maximum ripple	User radial shaft runout	0.15mm max TIR
Current consumption	80 mA typical	User axial shaft end play	± 0.7mm
Output circuits	5/24V Line Driver	Radial loading	Being the mass of the encoder
Frequency response	200 KHz std.	Axial loading	Being the mass of the encoder
Symmetry	180° electrical, ±5% (±9°e)	Moment of inertia	50 g/cm
Quadrature phasing	90° electrical, ±10% (±9°e)	Acceleration	10 ⁵ radians/sec ²
Minimum edge separation	72° electrical	Weight	0.25 Kg
Reference marker pulse	Gated (A•Z=F)	Housing	Aluminium with protective finish
Rise time	Less than 1 microsecond	Operating temperature	0°C to +100°C
Accuracy (cycle to cycle)	± 0.017° or 1 Arc/Min	Storage temperature	-25°C to +120°C
LED life	100,000 hrs typical	Humidity	98% RHNC
Pulses per revolution	See ordering information	Vibration	10 G's @ 58 to 500 Hz
Max shaft speed	7,500 rpm continuous	Shock	50 G's for 11 mSec
Shaft sizes and types	See ordering information	Protection	IP54
Shaft tolerances	H7, sliding fit for g6		IP64 with seal
Bearings	ABEC 3		

Output Circuits



For terminating information please see pages 34 & 35

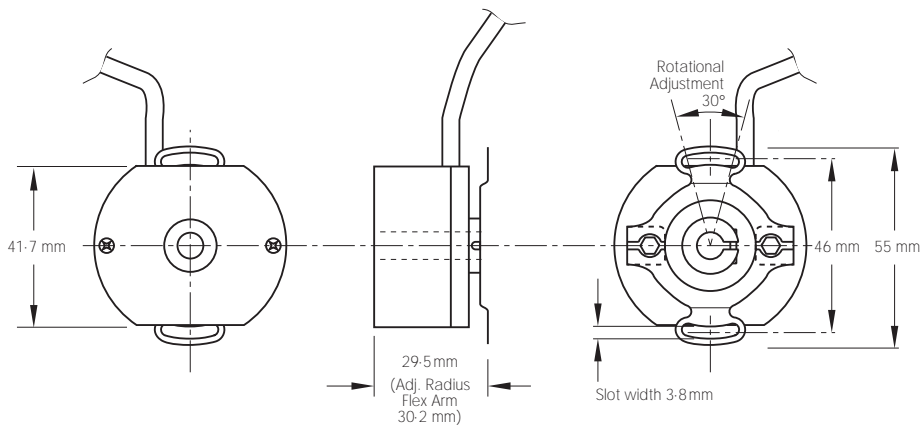
Ordering Information

260	Range	Shaft	VCC / Output Circuit	Pulses per Revolution	Protection
1 = 0200, 0250, 0254, 0256, 0360, 0500, 0512, 0600, 1000 2 = 1024, 1200, 1250 3 = 2000, 2048, 2500	3B = 15mm Blind Bore 4B = 6mm Blind Bore 5B = 10mm Blind Bore 8B = 8mm Blind Bore 9B = 12mm Blind Bore 0B = 14mm Blind Bore 3T = 15mm Thro' Bore 4T = 6mm Thro' Bore 5T = 10mm Thro' Bore 8T = 8mm Thro' Bore 9T = 12mm Thro' Bore 0T = 14mm Thro' Bore AT = 0.5" Thro' Bore AB = 0.5" Blind Bore 1B = 0.25" Blind Bore 2B = 0.375" Blind Bore 1T = 0.25" Thro' Bore 2T = 0.375" Thro' Bore	HV = 5/24V RS422 Differential Driver PP = 5/24V Push Pull	0200, 0250, 0254, 0256, 0360, 0500, 0512, 0600, 1000, 1024, 1200, 1250, 2000, 2048, 2500	S6B = IP64 (blind) S6T = IP54 (thro')	S = Standard slotted fixing A = Adjustable radius fixing

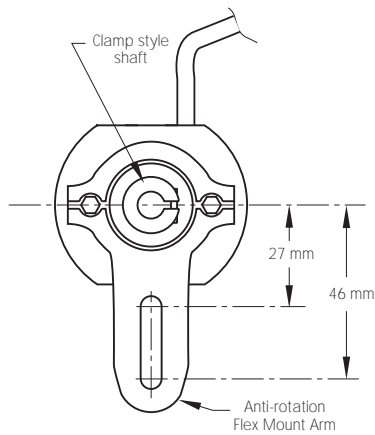




Dimensions



Standard Slotted Fixing



Adjustable Radius Fixing

