

Series 225

SERIES 225



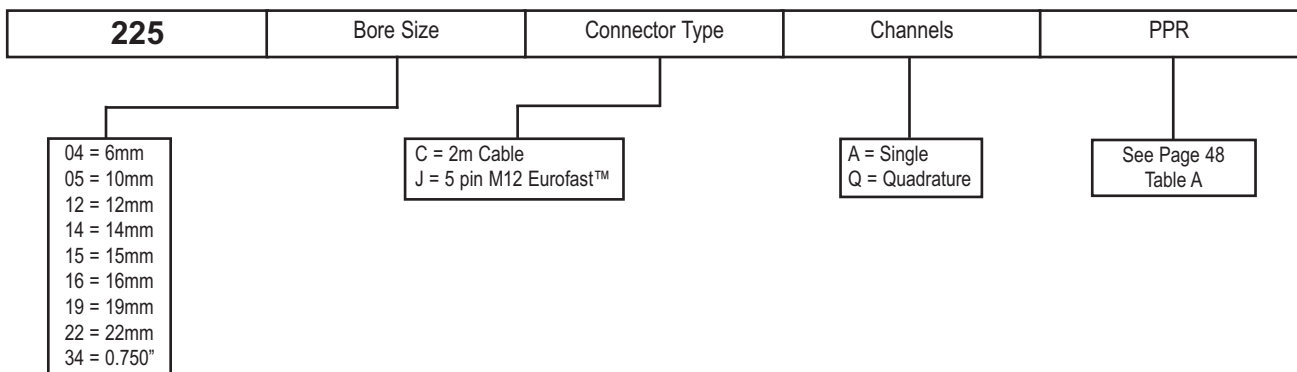
Design Features

The Series 225 Thru-Bore Encoder is low cost and available in both single channel (225A) and quadrature (225Q) models. The Model 225 is ideal for applications requiring motor speed control or tachometer feedback, and fits directly on a motor shaft for easy mounting.

Specifications

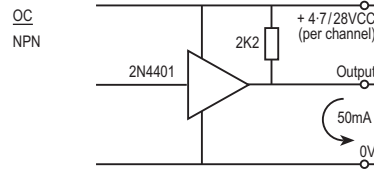
Input Voltage range	5/24V	Starting torque	0.07 Nm
Regulation, for 5V operation	5%, with 2% maximum ripple	User radial shaft runout	0.15mm max TIR
Current consumption	80mA typical	User axial shaft end play	±0.7mm
Output circuits	5/24V NPN	Radial loading	Being the mass of the encoder
Frequency response	6 KHz	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
Rise time	Less than 1 microsecond	Housing	Aluminum w/protective finish
Accuracy (cycle to cycle)	±0.017° or 1 Arc/Min	Operating temperature	0°C to +70°C
LED life	100,000 hrs typical	Storage temperature	-25°C to +120°C
Pulses per revolution	See ordering information	Humidity	98% RHNC
Max shaft speed	4,000 rpm continuous	Vibration	10 G's @ 58 to 500 Hz
Shaft sizes and types	See ordering information	Shock	50 G's for 11 mSec
Shaft tolerance	H7, sliding fit for g6	Protection	IP50
Bearings	ABEC 3		

Ordering Information





Output Circuits



Dimensions

