SERIES X25

Dynapar[™] brand

For Hazardous Location Application

Key Features

- Approved for NEC Class 1&2, Div 1&2, Groups C,D,E,F,G
- Rugged Enclosure with 1/2" Conduit Entry
- High 5000 PPR Capability





SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Code: Incremental

Resolution: 1 to 5000 PPR (pulses/revolution)
Accuracy: (Worst case any edge to any other edge) ≤1024 PPR (metal disk): ±7.5 arc-min.
>1024 PPR (glass disk): ±2.5 arc-min.
Format: Two channel quadrature (AB) with optional Index (Z) and complementary outputs
Phase Sense: A leads B for CCW shaft rotation as viewed from the shaft end of the encoder
Quadrature Phasing: 90° ± 25° electrical
Symmetry: 90° ± 25° electrical
Index: 2540 PPR and below: 180° ± 25°

electrical; Greater than 2540 PPR: $90^{\circ} \pm 25^{\circ}$ electrical **Waveforms:** Squarewave with rise and fall tin

Waveforms: Squarewave with rise and fall times less than 1 microsecond into a load capacitance of 1000 pf

ELECTRICAL

Input Power:

4.5 min. to 26 VDC max. at 80 mA max., not including output loads

Outputs:

7273 Open Collector: 30 VDC max., 40 mA sink max.

7272 Push-Pull and Differential Line Driver: 40 mA sink or source

Frequency Response: 100 kHz min.
Electrical Protection: Overvoltage, reverse voltage and output short circuit protected
Noise Immunity: Tested to EN50082-2 (Heavy Industrial) for Electro Static Discharge, Radio Frequency Interference, Electrical Fast Transients, Conducted and Magnetic Interference

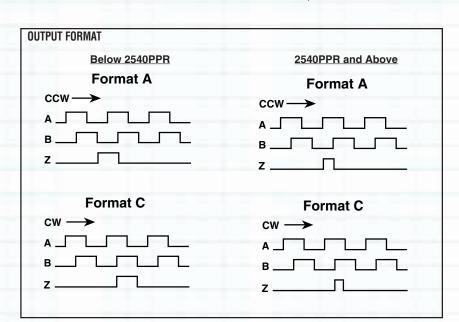
MECHANICAL

Shaft Loading: 40 lbs. radial, 40 lbs. axial Shaft Speed: 5,000 RPM max. Shaft Runout: 0.001" max. TIR Starting Torque: (max at 25 $^{\circ}$ C) 2.0 oz.-in Moment of Inertia: 9.0×10^{-4} oz-in-sec²

ENVIRONMENTAL

washdown)

Operating Temperature: 0 to +70 °C; Storage Temperature: -40 to +90 °C Shock: 50 G's for 11 milliseconds duration Vibration: 5 to 2000 Hz at 2 G's Humidity: to 98% without condensation Weight: 4.5 lbs. (2.0 kg) Enclosure Rating: NEMA4X/IP56 (dust proof,





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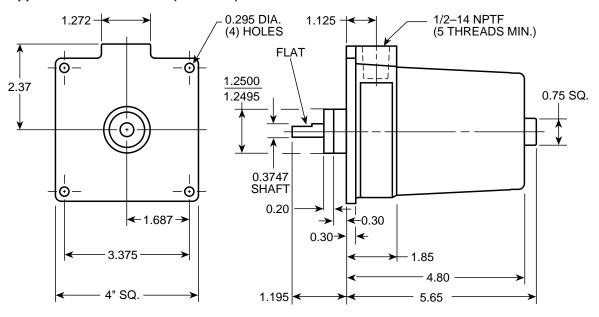
Ordering Information

To order, complete the model number with code numbers from the table below:

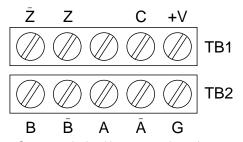
Code 1: Model	Code 2: Pulses/Rev	Code 3: Mechanical	Code 4: Output	Code 5: Electrical
X25				
X25 Explosion Proof, Shielded Bearings with Shaft Seal	0001 0360 1600 0005 0400 1800 0010 0500 1968 0012 0512 2000 0025 0600 2048 0050 0635 2400 0060 0720 2500 0086 0768 2540 0100 0800 3000 0120 0900 3400 0180 1000 3600 0200 1024 3750 0240 1200 4000 0250 1250 4096 0254 1270 4800 0256 1500 5000	0 3/8" Shaft 1 1/4" Shaft	 Single Ended, no index, Format C Single Ended, with index, Format C Differential, no Index, Format C Differential, with index, Format C Single Ended, with index, Format A Differential, with index, Format A 	 5-26V in; 5-26V Open Collector with 2.2kΩ Pullup out 5-26V in; 5-26V Open Collector out 5-26V in; 5V Totem Pole out 5-26V in; 5V Line Driver out 5-26V in; 5-26V Line Driver out

DIMENSIONS

Approximate Dimensions (in inches)



Terminal Board Connections



Screw terminals with pressure plates that accept #14 AWG to #22 AWG.