





Introduction

The EX15 Series was developed to provide a high precision, enclosed shaft encoder for light duty and small applications. The EX15 boasts 1024 line counts in a miniature 1.54" diameter package.

Capable of operating over a temperature range of 0C to +70C without degradation of signals, the EX15 Series provides superior, commercial grade performance.

A standard two-year warranty and proven design makes the EX15 a valuable product for OEM applications.

MECHANICAL SPECIFICATIONS

Diameter	1.54″
Height	1.45″
Shaft Size	.25″
Weight	3 ounces
Acceleration	200,000 rad./sec. Max
Shaft Load	Axial 5lb. Radial 5lb.
Torque	Less than 0.5 ounce inch
Bearings	Sealed ABEC 3



Mounting Holes	4 Places #4-40 @ 90° on 1.10" B.C.							
Servo Mount	Designed to accommodate motor mount cleat "PIC type" L2-2							
Shaft Coupling	Must be flexible (do not hard mount)							





Code	Incremental
Output Format	Dual channel quadrature, min. edge separation 45°
Output Type EX152/EX153	Square wave TTL & CMOS. 16mA sink. 500 μ A source short circuit protected
Output Type EX156	TTL differential line driver (26LS31) or equivalent should be terminated into a line receiver (26LS32) or equivalent circuit
Frequency Response	See figure 7
Rise Time	Less than 1.0 µ sec

ENVIRONMENTAL SPECIFICATIONS

Enclosure	Unsealed housing. Unit must be protected from harsh environments.							
Temperature	Operating, 0° to 70° C; Storage, -20° to 105° C							

TERMINATION SPECIFICATIONS

Туре	See Figures 1 through 6
Pinout	See pinout section



BEISENSORS

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Use this diagram, working from left to right to construct your model number

	EX15		2	-	500	-	G	-	PH7
Model									
EX15									
Output Format									
2 = Quadrature w/ comple 6 = Quadrature w/ Index &	ements & comple	ements							
Pulses Per Rev	olutior	ı (Ppr) -							
500, 512, 1000, 1024									
Index Type 🛛 🗕									
*For Output Format 6 ONL U = Ungated G = Gated to A & B	Y								
Output Termina	tion								
CXX = Round Shielded Ca PH7 = Terminal Board wit PH10 = Terminal Board w	able (XX = th 7 pin h rith 10 pi	= length of c leader n header	able in	inches)					

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