

**PART NUMBER:** NSC-XXXX-2MD-RES**DESCRIPTION:** incremental shaft type encoder**ELECTRICAL SPECIFICATIONS**

output waveform	square wave
output signals	A, B, Z phase, inverse A, B, Z phase
current consumption	≤150 mA
frequency response	≤150 kHz
supply voltage	5 V dc ± 5%
sink current	≤20 mA
output voltage	“H” 2.5 V min. “L” 0.5 V max.
output resolution (ppr)	1024, 1500
waveform rise/fall time	200 ns max.

**MECHANICAL SPECIFICATIONS**

max shaft load, radial:	1.0 kgf
axial:	0.5 kgf
starting torque	10 gf·cm max.
angular acceleration	1x10 <sup>5</sup> rad/s <sup>2</sup>
moment of inertia	2.0 g·cm <sup>2</sup>
max rotational speed	6000 RPM
shock resistance	50 G, 11 ms, 3 times each on XYZ
vibration proof	10 ~ 50 Hz, double amplitude 1.5 mm, 2 hours
rotational life	1x10 <sup>8</sup> rpm·hrs

**ENVIRONMENTAL SPECIFICATIONS**

operating temp	-10° to +60° C
storage temp	-30° to +80° C
humidity	RH 85% max., non-collecting

**ELECTRICAL CONNECTIONS**

2MD	Color of Lead Wire	Description	Color of Lead Wire	Description
	Red	Power Source	White	Signal B <sub>-</sub>
	Black	0V Common	Gray	Signal B <sub>+</sub>
	Green	Signal A <sub>-</sub>	Yellow	Signal Z <sub>-</sub>
	Blue	Signal A <sub>+</sub>	Orange	Signal Z <sub>+</sub>
	Shielding Braid	NC		

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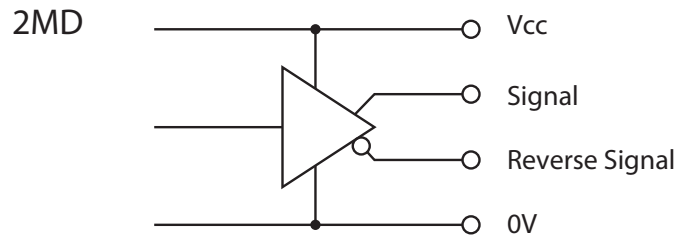
**DESCRIPTION:** incremental shaft type encoder

## ORDERING INSTRUCTIONS

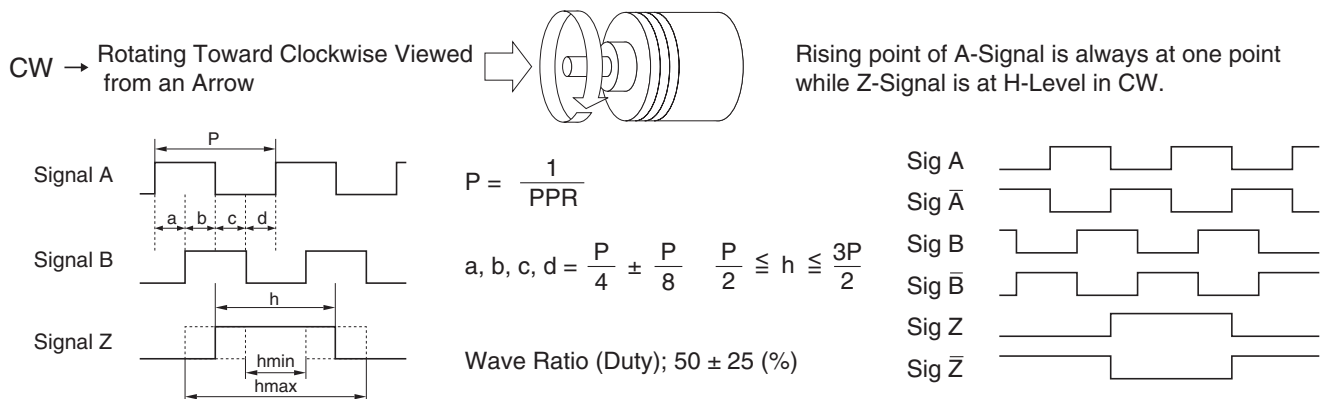
# NSC-XXXX-2MD-RES

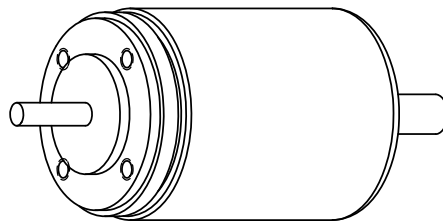
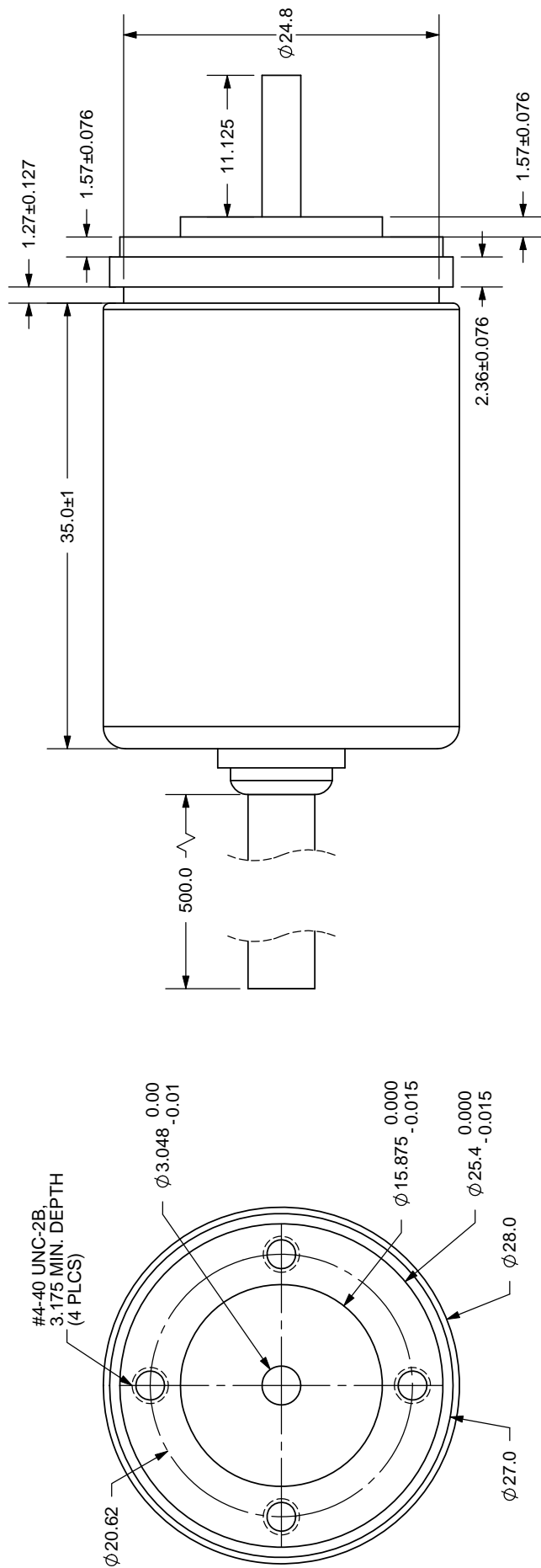
Resolution:  
1024 = 1024 PPR  
15 = 1500 PPR

## CIRCUIT CONNECTIONS



## OUTPUT WAVEFORM





TOLERANCE:  
±0.3mm UNLESS OTHERWISE  
SPECIFIED



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TITLE: Incremental Encoder	REV: A
PART NO: NSC-XXXX-2MD-RES	UNITS: MM [INCHES]
DRAWN BY: JMS	APPROVED BY:
	SCALE: 2:1