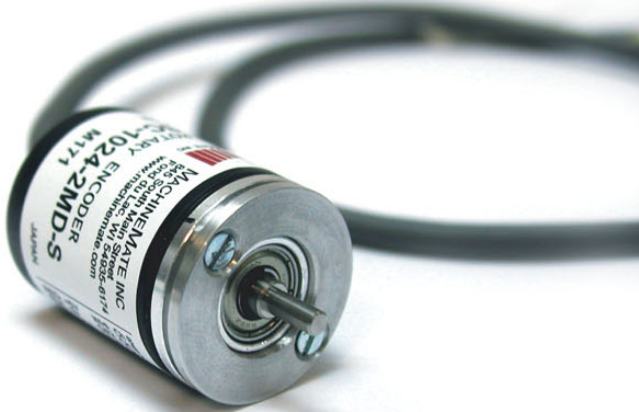


# ROTARY ENCODERS

## NSC NSC-S Encoder

The NSC-1024-2MD-125-S is ideal for the conversion of manual machine tools to numeric controlled or computer-numeric controlled machine tools. The servo-mount faceplate makes aligning electrical and mechanical zero fast and easy. In addition, this encoder is superior to a resolver by lowering costs and eliminating the need for an analog to digital converter.

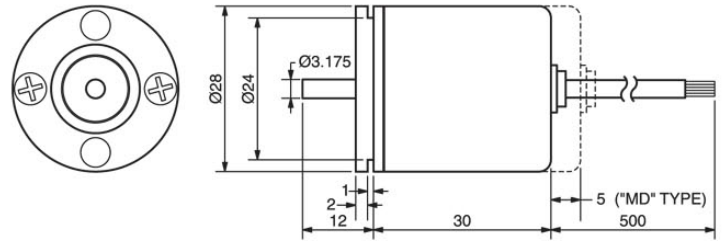


### Features:

- Digital output - communicates directly with the CPU
- Direct mechanical replacement with servo-mount
- Eliminates the cost of an A/D converter
- Typical cost is far lower than a resolver
- Works on 5VDC

*go online for full product details*

## NSC-S dimensions/specs



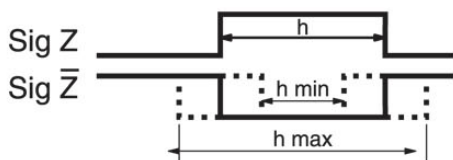
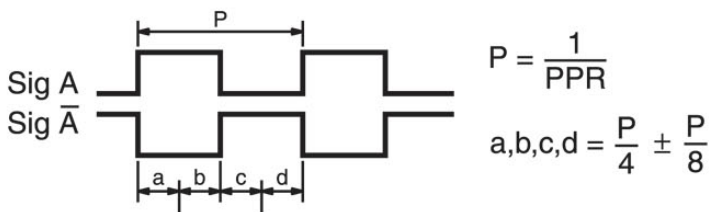
electrical	
resolution	1024PPR
supply voltage	5VDC $\pm 5\%$
current	150mA max.
output voltage	H=2.5V min.; L=0.5V max.
sink current	20mA max.
signal risetime	200nS max.
freq. response	150kHz max.

mechanical	
max shaft load	radial: 1.0 kgf; axial: 0.5 kgf
moment of inertia	2.0 g $\cdot$ cm <sup>2</sup>
angular acceleration	1 x 10 <sup>5</sup> rad/S <sup>2</sup>
max slewing speed	6000 RPM
starting torque	10 gf $\cdot$ cm max
rotational life	1 x 10 <sup>8</sup> rpm $\cdot$ hrs

environmental	
operating temp	-10 $^{\circ}$ to $\pm 70^{\circ}$ C
storage temp	-30 $^{\circ}$ to $\pm 80^{\circ}$ C
humidity	$\leq 85\%$ RH, no condensation
vibration	10~55 Hz, 1.5mm, 2 hrs.
shock	50G, 11ms, 3 axes, 3reps

## NSC-S output waveform

*clockwise rotation viewed from front*



## ordering



920-907-0001  
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