

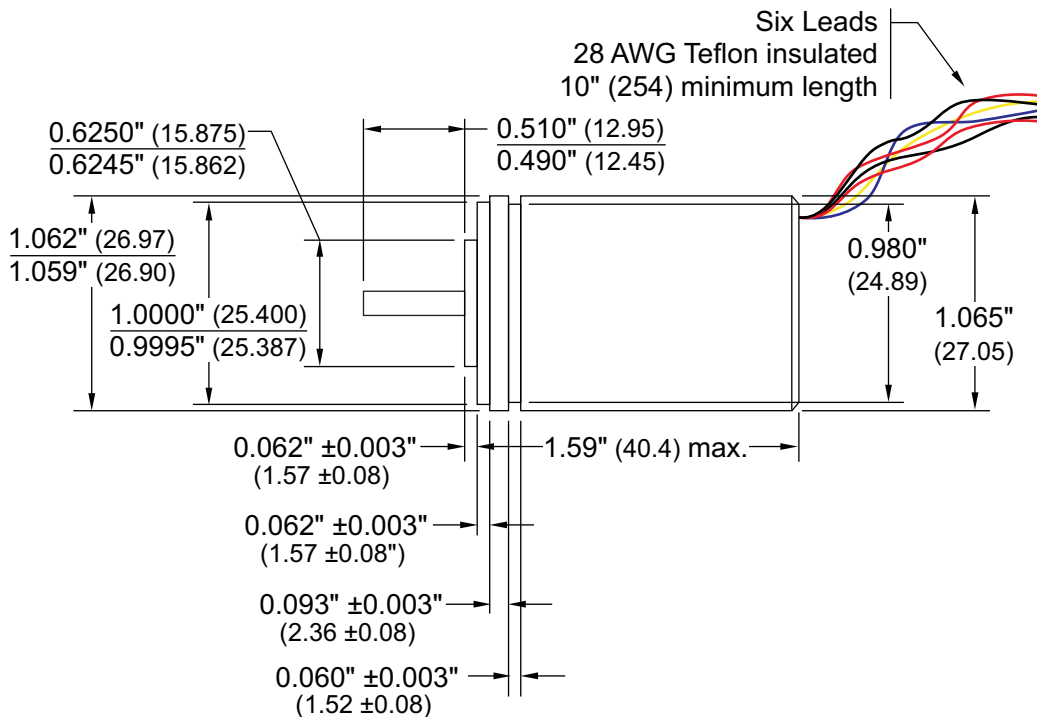
## R11X-N10/7 Specification Sheet

SHEET # 940-2T512

### DESCRIPTION

Designed for reliable operation, the R11X-N10/7 can be used in a wide range of space critical applications where environmental sealing is not required. The resolver provides the absolute position of the input shaft within a single turn. Resolvers are analog, ratiometric devices, so any changes in the resolver's characteristics, such as those caused by aging, frequency, voltage, or a change in temperature, are ignored. Due to the small shaft size, a flexible coupler must be used when connecting this resolver to your machinery. Note that, due to the transformation ratio of the R11X-N10/7, this resolver will not work directly with AMCI standard controllers or interface modules.

### DIMENSIONAL DRAWING



( ) = Dimensions in millimeters

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## SPECIFICATIONS

### Electrical:

Input Voltage: 8.5 V  
Input Freq: 1000 Hz  
Primary: Stator  
Input Current: 18.0 mA max.  
Input Power: 97 mW max.  
Output Voltage: 8.5 V nom.  
Trans. Ratio:  $1.00 \pm 5\%$   
Zro ( $\Omega$ ):  $220 + j350$   
Zrs ( $\Omega$ ):  $190 + j192$   
Zso ( $\Omega$ ):  $230 + j890$   
Zss ( $\Omega$ ):  $231 + j896$   
DC Rotor Res.:  $40 \Omega$   
DC Stator Res.:  $130 \Omega$   
Phase Shift:  $6^\circ$  leading max.  
Null Voltage: 15 mV total max.  
Accuracy:  $\pm 7$  min. max.

### Mechanical:

Shaft Load: 2 lbs. radial<sup>†</sup>  
1 lbs. axial<sup>†</sup>  
Starting Torque: 0.08 oz-in @ 25°C  
Rotor Moment:  $0.51 \times 10^{-4}$  oz-in-sec<sup>2</sup>  
Weight: 115g (4.04 oz)  
Enviro. Rating: IP40 / NEMA 1

<sup>†</sup> At the recommended maximum loads, average bearing life is  $2 \times 10^9$  revolutions. (L10 rating)

### Environmental:

Operating Temperature:  $-40^\circ\text{C}$  to  $+125^\circ\text{C}$   
 $-40^\circ\text{F}$  to  $+257^\circ\text{F}$   
Shock: 50 g's for 11 ms  
Vibration: 15 g's to 2000 Hz

## SAMPLE INSTALLATION

The picture below shows how to connect a R11X-N10/7 to an AMCI standard cable.

