ADVANCED
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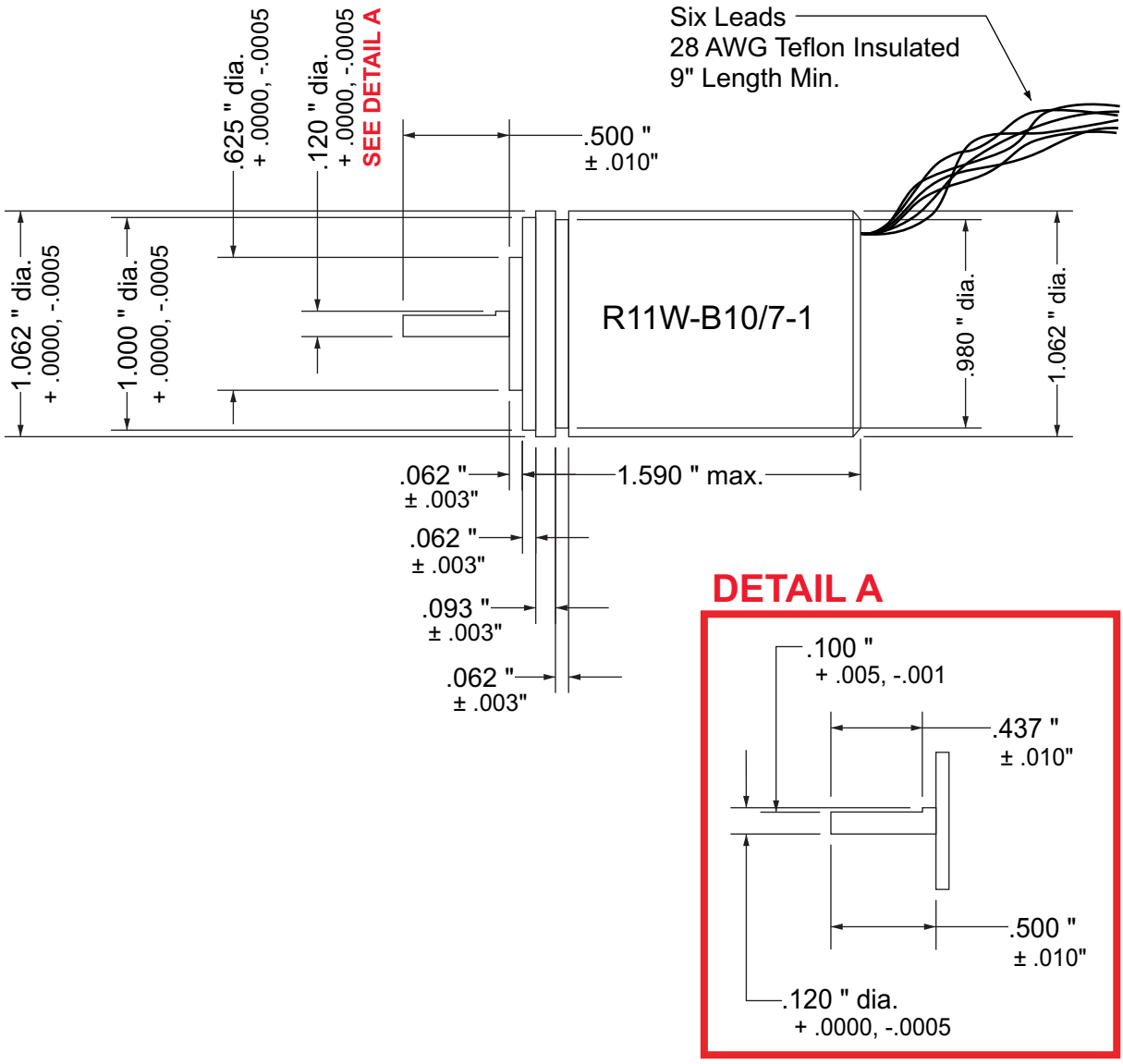
R11W-B10/7-1 Specification Sheet

SHEET # 940-2T491

DESCRIPTION

Designed for reliable operation, the R11W-B10/7-1 can be used in a wide range of space critical applications where environmental sealing is not needed. 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 this resolver is a Control Transformer, not a Transmitter, and will not work with AMCI's standard controllers or interface modules.

DIMENSIONAL DRAWING



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SPECIFICATIONS

Electrical:

Input Voltage:	12.0 V
Input Freq:	400 Hz
Primary:	Stator
Input Current:	17.0 mA max.
Input Power:	70 mW max.
Output Voltage:	21.0 V nom.
Trans. Ratio:	1.75 ± 5%
Zro (Ω):	2130 + j3840
Zrs (Ω):	2666 + j1900
Zso (Ω):	460 + j770
Zss (Ω):	555 + j370
DC Rotor Res.:	820 Ω
DC Stator Res.:	200 Ω
Phase Shift:	12° leading max.
Null Voltage:	20 mV total max.
Accuracy:	±7 min. max.

Mechanical:

Shaft Load:	2 lbs. radial†
	1 lbs. axial†
Starting Torque:	0.08 oz-in @ 25°C
Rotor Moment:	$0.51X10^{-4}$ oz-in-sec^2
Weight:	115g (4.04 oz)
Enviro. Rating:	IP40 / NEMA 1

† At the recommended maximum loads, average bearing life is $2X10^9$ revolutions. (L10 rating)

Environmental:

Operating Temperature:	–40°C to +125°C
	–40°F to +257°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 R11W-B10/7-1 to AMCI's standard cable.