

20 GEAR DRIVE, PLYMOUTH INDUSTRIAL PARK, TERRYVILLE, CT 06786 TEL: (860) 585-1254 FAX: (860) 584-1973

R11X-A10/7 Specification Sheet

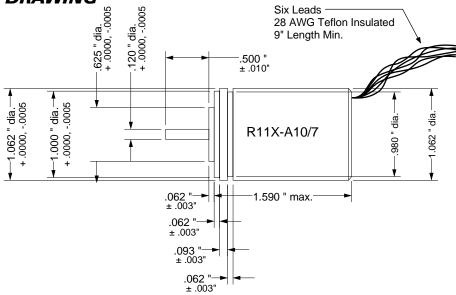
SHEET # 940-2T421

DESCRIPTION

Designed for reliable operation, the R11X-A10/7 can be used in a wide range of applications. The brushless resolver is unsurpassed by any other type of rotary position transducer. Use this resolver for space critical applications where environmental sealing is not needed. The resolver provides absolute position of the input shaft and, being ratiometric, any changes in the resolvers 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 the resolver to your machinery.

Please note that due to its electrical characteristics, the R11X-A10/7 will not work with AMCI's standard controllers. The AMCI size 11 resolver that is compatible with all AMCI electronics is the R11X-J10/7.

DIMENSIONAL DRAWING



ELECTRICAL SPECIFICATIONS

Input Voltage: 7.5 V Input Freq: 4000 Hz Primary: Rotor

Input Current: 16.0 mA max. Input Power: 87 mW max. Output Voltage: 4.00 V Nom. Trans. Ratio: 0.54 ± 5%

ZRO: 220+j206 ohms ZRS: 134+j173 ohms Zso: 197+j244 ohms Zss: 114+J196 ohms

Phase Shift: -2° Leading Rotor Resist: 16 ohms (DC) Stator Resist: 40 ohms (DC) Null Voltage: 15 mV total

Accuracy: 7 min. (max. error)

MECHANICAL SPECIFICATIONS

Shaft Loading: Radial: 2 lbs. max.

Axial: 1 lb. max.

Bearing life rated at 2X109 revolutions minimum at maximum shaft load.

Starting Torque: 0.08 oz-in @ 25°C Moment of Inertia: 0.51X10-4 oz-in-sec2

Weight: 0.25 lbs.

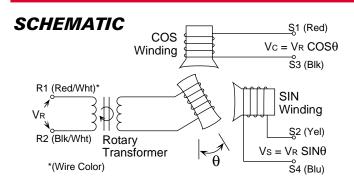
ENVIRONMENTAL SPECIFICATIONS

Operating Temp: -20°C to 125°C Shock: 50 G's for 11 mS

Vibration: 15 G's to 2000 Hz

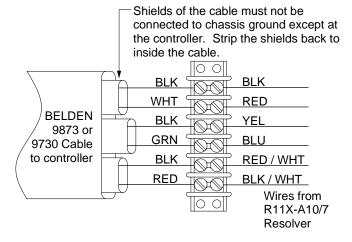
LEADERS IN ADVANCED CONTROL PRODUCTS

R11X-A10/7 Specification Sheet



SAMPLE INSTALLATION

The picture below shows how to connect a R11X-A10/7 to AMCI's standard cable.



FOR MORE INFORMATION

If you need more information on the R11X-A10/7, use these three resources:

- If you have internet access, check our website at http://www.amci.com. We've worked hard to make our site the repository of information you need to specify and use AMCI products. New product news, product specifications, compatibility tables, application notes, and PDF manuals are all available 24 hours a day.
- You can also call AMCI for sales or technical support at (860) 585-1254 from 8AM to 5PM EST, Monday through Friday. An applications engineer will be available to assist you.
- Finally, you can e-mail us at sales@amci.com or techsupport@amci.com.