**R11X-2J10/20 Specification Sheet**

**DESCRIPTION**

Designed for reliable operation in demanding environments, the two-speed R11X-2J10/20 can be used in a wide range of space critical applications where environmental sealing is not needed. The electrical outputs of the R11X-2J10/20 complete two sinusoidal cycles for every turn of the input shaft. Therefore, this resolver gives an absolute position output every 180°, not every 360° as a standard one-speed resolver does. These resolvers are still ratiometric and being so, 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.

**DIMENSIONAL DRAWING**

![Dimensional Drawing](image)

**SPECIFICATIONS**

- Input Voltage: 7.0 V
- Input Freq: 5000 Hz
- Primary: Rotor
- Speed: 2 (Outputs cycle every 180°)
- Trans. Ratio: 0.95 ± 5%
- Input Current: 22.0 mA Max.
- Input Power: 95mW Max.
- Zro (Ω): 200 + j235
- Zrs (Ω): 160 + j192
- Zso (Ω): 480 + j1980
- Zss (Ω): 480 + j1950
- DC Rotor Res.: 16 Ω
- DC Stator Res.: 61 Ω
- Accuracy: ±20 min. (max. error)
- Weight: 115g (4.0 oz)
- Rotor Moment: 0.51X10⁴ oz-in/sec²
- IP Rating: IP40

**Sample Installation**

The picture below shows how to connect a R11X-2J10/20 to AMCI’s standard cable. Connection to the AMCI Controller follows published cable prints.

![Sample Installation](image)

Shields of the cable must not be connected to chassis ground except at the AMCI Controller. Strip the shields back to inside the cable.

- BELDEN 9730 Cable
- GRN (S2) YEL
- BLK (S1) RED
- RED (R2) BLK / WHT
- WHT (R1) RED / WHT
- Wires from R11X-2J10/20 Resolver

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