

AMCI R11W-F10/7-2

Size 11 Brushless Resolver Control Transformer

Product scope

- Uses a 12 V RMS, 2500 Hz stator excitation with a 0.50 transformation ratio.
- Provides seven-arc-minute maximum angular error in the documented execution.
- Uses the model-specific 0.1200 x 0.300 in shaft and six PTFE leads.
- Requires a compatible control-transformer decoder and a flexible shaft coupler.

Manufacturer source

AMCI specification sheet 940-2T480 for R11W-F10/7-2.

The enclosed record and retained manufacturer pages identify the exact product and explain its function, operating principle, application and critical matching requirements.

Request a fast quote	Product reference	
Email: info@apterpower.com Phone: +86 18106909650 apter.com/inquiry.php	AMCI R11W-F10/7-2	

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AMCI R11W-F10/7-2

Size 11 Brushless Resolver Control Transformer

Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

Resolver type	Control transformer, not a control transmitter
Input	12.0 V RMS at 2500 Hz; stator primary
Maximum input current	10.0 mA
Nominal output	6.00 V RMS
Transformation ratio	0.50 +/- 5%
Maximum accuracy error	7 arc minutes
Enclosure rating	NEMA 1
Shaft	0.1200 in diameter x 0.300 in length
Leads	Six 28 AWG PTFE-insulated leads, minimum 9 in

Official references

- AMCI specification sheet 940-2T480 for R11W-F10/7-2.
- Official source: https://www.amci.com/files/5214/5496/8735/r11w-f10_7-2_Spec_Sheet_-_2t480.pdf

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

Purpose

The resolver provides rugged analog angular-position feedback in compact machinery where environmental sealing is not required and a compatible control-transformer decoder is available.

Operating principle

A sinusoidal reference excites the stator and the rotor position changes the coupled sine and cosine relationship. A compatible resolver decoder calculates shaft angle from the ratiometric output, rejecting common changes in excitation and component characteristics.

Configuration distinction

The -2 mechanical execution uses the exact 0.300 in shaft length shown on AMCI sheet 940-2T480. It must not be replaced solely by the otherwise similar R11W-F10/7 drawing with a 0.500 in shaft.

Mechanical application

The small shaft requires a flexible coupler to avoid excessive radial or axial loading. The resolver body is intended for space-critical servo, machine-axis and positioning assemblies.

Wiring caution

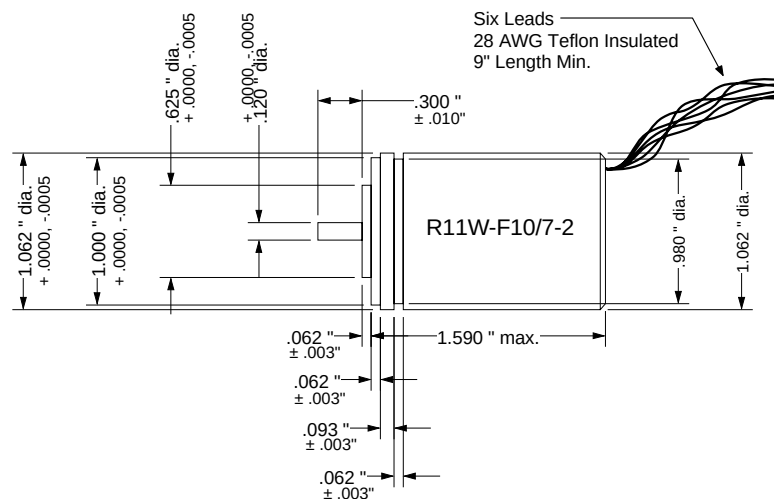
Route the six resolver leads as documented and terminate cable shields only at the resolver decoder. This control-transformer model is not compatible with AMCI interfaces intended only for transmitter-type resolvers.

**AMCI ADVANCED
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TEL: (860) 585-1254 FAX: (860) 584-1973 <http://www.amci.com>**R11W-F10/7-2 Specification Sheet**

SHEET # 940-2T480

DESCRIPTION

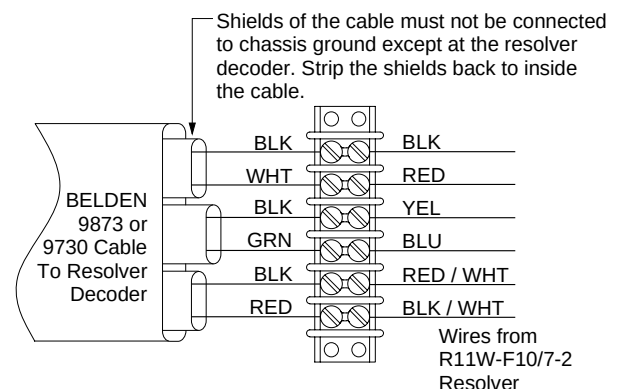
Designed for reliable operation, the R11W-F10/7 can be used in a wide range of space critical applications where environmental sealing is not needed. Resolvers are analog, ratiometric devices, so any changes in the resolver's characteristics, such as those caused by aging, frequency, voltage or a change 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**Specifications**

Input Voltage: 12.0 V
 Input Freq: 2500 Hz
 Primary: Stator
 Input Current: 10.0 mA Max.
 Output Voltage: 6.00 V Nom.
 Trans. Ratio: $0.50 \pm 5\%$
 Accuracy: 7 min. (max. error)
 NEMA Rating: NEMA 1

Sample Installation

The picture below shows how to connect a R11W-F10/7 to AMCI's standard cable.

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