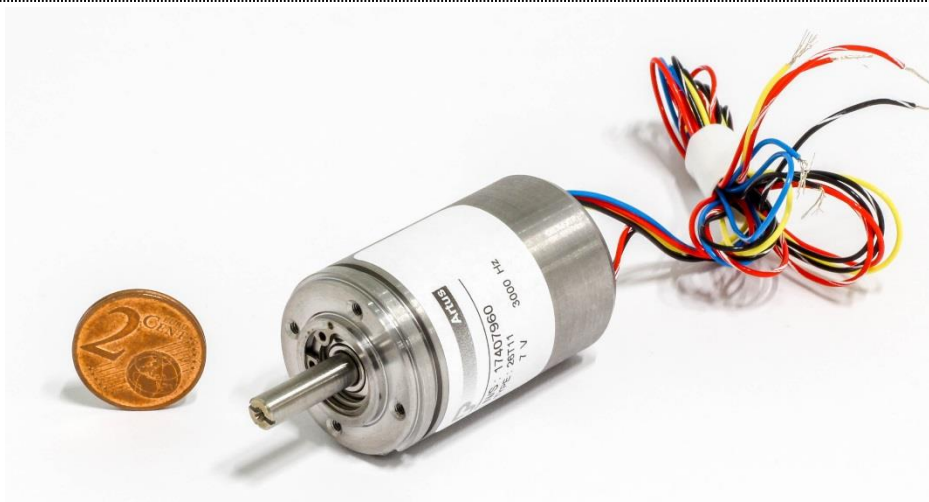


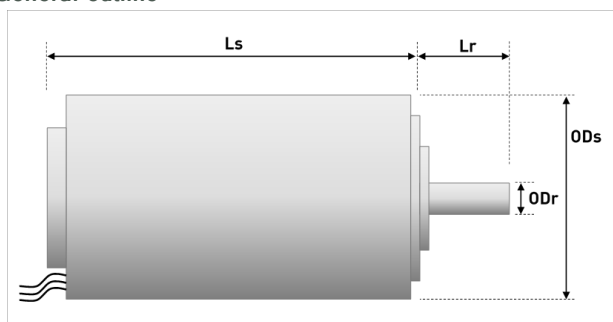
## Position sensors

# Resolver size 11



The standard size 11 brushless resolver represents the best weight-cost-robustness compromise for many aerospace and military sensing applications. Each design can be specific for each application. Please contact our team to discuss your latest requirements.

### General outline



Outside dia. Stator (ODs)  
 Outside dia. Shaft (ODr)  
 Casing length (Ls)  
 Shaft length (Lr)

Model	ODs	ODr	Ls	Lr	Weight	Rotor inertia
Unit	mm	mm	mm	mm	g	Kg.m <sup>2</sup>
T11RX4aG5	27	4.755	45	9.1	130	3.0E-07
T11RX4aG1				15.9		

### Key features

- Transmitter Resolver
- Differential output signals
- Brushless, rotating transformer
- Frequency 400 Hz to 10 kHz
- Housed unit, standard interface
- Custom modification available

### Applications

- Brushless motors<sup>3</sup> drive
- Cockpit controls
- Engine controls
- Flight controls

### Contact

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## Meggitt Sensing Systems

Our product competencies and services:  
 Avionics displays | Inertial sensors | Ignition systems |  
 Performance Sensing | **Power & Motion** | Sensing & Monitoring

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## Position sensors

# Resolver size 11

## Specifications

	Symbol	Unit	T11RX4a
<b>Type and size constants</b>			
Type of structure	/	/	Can-type, primary on rotor
Angular range	/	Degree	360°
Speed options	/	/	1
Energizing voltage	/	/	4 to 26 V <sub>RMS</sub> , Sine wave, DC offset ≤ 50 mV
Friction torque (max)	/	Nm	1.0E-03
Axial play (max)	/	mm	0.040
Radial play (max)	/	mm	0.015
Rotational speed (up to)	/	rpm	10,000
<b>Speed and winding constants</b>			
			<b>(Speed 1)</b>
Energizing frequency range	f	Hz	400 to 10,000
Input impedance (modulus; see curves)	Z <sub>PO</sub>	Ohm	217 to 2600
Transformation Ratio (see curves)	RT	-	0.454 to 0.492
Phase Shift (see curves)	φ	°	-4 to 16
Accuracy (guaranteed; see note 2)	ε	°	0.2
		Arcmin.	12

See RT, φ and Z<sub>PO</sub> performances versus frequency range on next page.

Note: Due to continuous process improvement, specifications are subject to change without notice

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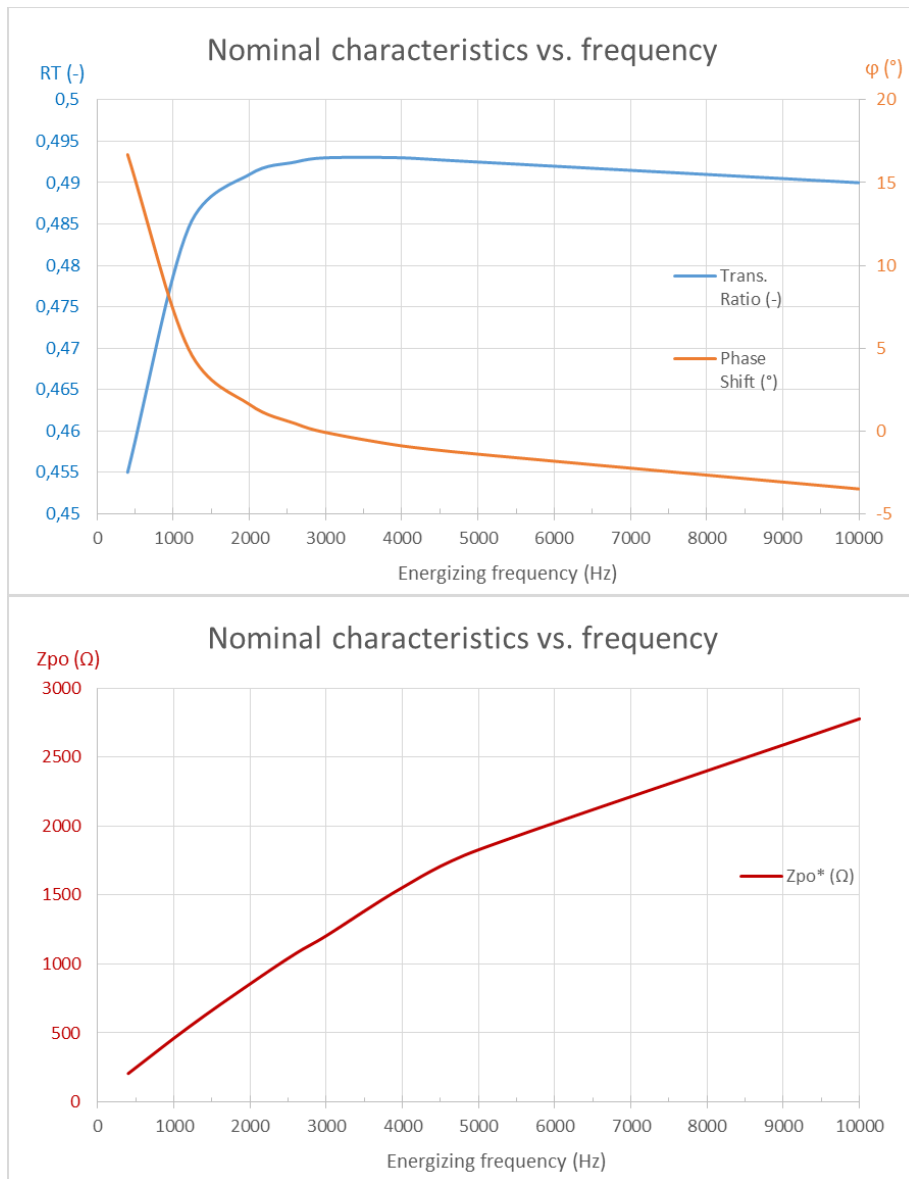
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## Position sensors

# Resolver size 11

## Performances over frequency range



### T11RX4a

**Notes:**

1. Typical electrical performances are given at 25 °C.
2. Accuracy includes temperature effects within [-40°C / +70°C] range.
3. Other custom mechanical options are available – please contact our applications engineer.
4. Compatibility to specific environment is analysed on request - please contact our applications engineer.

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