

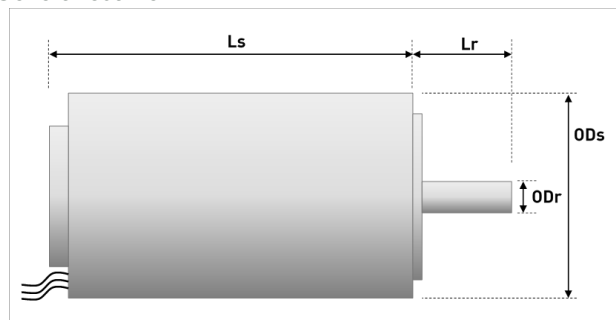
Position sensors

Resolver size 08



The standard size 08 brushless resolver is the smallest and one of the best-selling product of ARTUS for aerospace and military lightweight 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 ²
T08RX4c	20	3.048	32	10	45	1.0E-07

Key features

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

Applications

- Brushless motors³ drive
- Cockpit controls
- Engine controls
- Flight controls

Contact

Artus

37 Ch. Du Champ des Martyrs
 BP 20009
 49241 Avrillé Cedex
 France
 Tel: +33 (0) 241 336 340
 artus.sales@meggitt.com
 www.meggittpower.com

Meggitt Sensing Systems

Our product competencies and services:

Avionics displays | Inertial sensors | Ignition systems |
 Performance Sensing | **Power & Motion** | Sensing & Monitoring

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Specifications

	Symbol	Unit	T08RX4c
Type and size constants			
Type of structure	/	/	Can-type, primary on rotor
Angular range	/	Degree	360°
Speed options	/	/	1
Energizing voltage	/	/	4 to 26 V _{RMS} , Sine wave, DC offset ≤ 50 mV
Friction torque (max)	/	Nm	2.0E-04
Axial play (max)	/	mm	0.020
Radial play (max)	/	mm	0.010
Rotational speed (up to)	/	rpm	10,000
Speed and winding constants (alternate options available)			
			(Speed 1)
Energizing frequency range	F	Hz	400 to 10,000
Input impedance (modulus; see curves)	Z _{P0}	Ohm	215 to 2700
Transformation Ratio (see curves)	RT	-	0.433 to 0.475
Phase Shift (see curves)	φ	°	-3 to 24
Accuracy (guaranteed; see note 2)	ε	° Arcmin.	0.2 12

See RT, φ and Z_{P0} performances versus frequency range on next page.

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

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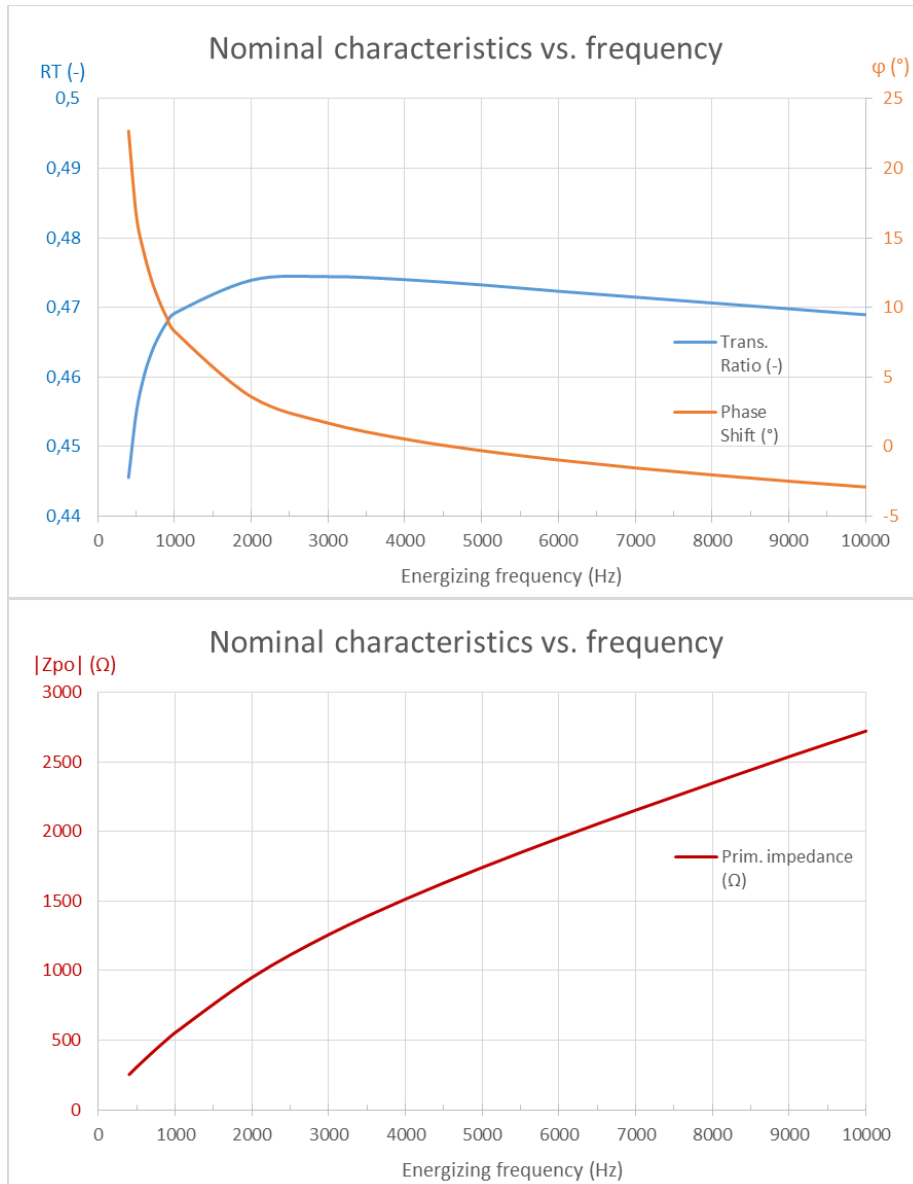
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 smart engineering for
 extreme environments



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Performances over frequency range



T08RX4c

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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