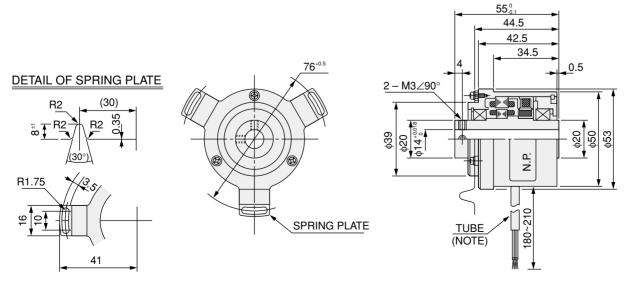


HOLLOW SHAFT RESOLVERS

SIZE		21	
Model No.		TS2641N11E64	TS2651N111E78
Туре		BRX	BRT
Primary		R1-R2	S1-S3, S2-S4
Input Voltage/Frequency		7Vrms 10kHz	3.5Vrms 4kHz
Transformation Ratio		0.5 ± 5%	0.3 ± 5%
Electrical Error		±10′ Max.	±10′ Max.
Null Voltage		20mVrms Max.	
Phase Shift		−5° Nom.	
Impedance	Z _{RO}	190Ω	51+j90Ω
	Zrs		44+j76Ω
	Zso	300Ω	102+j150Ω
	Zss	270Ω	
Operating Temperature		−10 ~ +100°C	−10 ~ +150°C
Max. Operating Speed		83.3s ⁻¹	133.3s ⁻¹
Mass		0.3kg	0.305kg
Output Type		Normal	E _{R1-R2=} K(-E _{S1-S2} SIN θ-E _{S2-S4} COS θ)

OUTLINE (DIMENSION: mm)

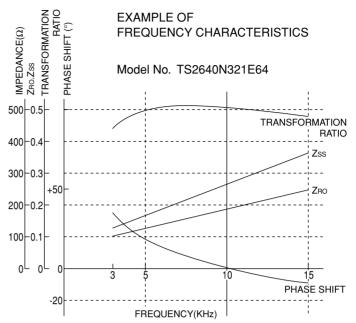
SIZE 21 TS2641N11E64, TS2651N111E78



NOTE TS2641N11E64 : WITHOUT TUBE TS2651N111E78 : WITH TUBE

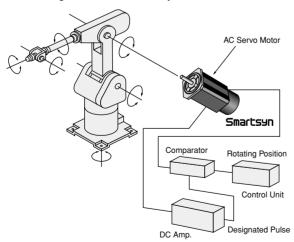
APPLICATION NOTES

- ■The supply voltage is a rated value, and a resolver can accept a voltage from 3V to approx. 1.2 times as high as the rating. However, the supply frequency should only be altered within ±5% lest it should affect the accuracy. Electrical parameters largely vary as the frequency varies as shown on the right.
- ■When a noise source is in vicinity, or when signal transfer distance is long, twisted/shielded pair cables should be used. When a noise still exists on the signals, they should be received by a differential amplifier.
- ■In BRX resolver, the two output voltages should be connected to the same amount of loads each other, or the voltages will get disproportionate, thus affect the accuracy.
- When an intense magnetic field surrounds a resolver, it may not work properly with its magnetic flux affected.
- ■When a resolver is used in a high humidity as close to 100% Rh for a long time, waterproof structure should be considered lest its insulation materials should deteriorate.
- All resolvers in the catalog are 1× (2 poles) resolvers. For winding modifications to other speeds, please consult us.

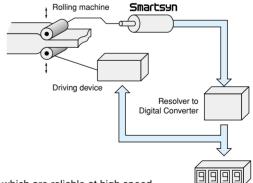


APPLICATIONS

· For Driving Robot Hand and Body.



 Applicable to the roller positioning control of rolling mills.



• Smartsun resolvers which are reliable at high speed are suitable for numerical control systems.

