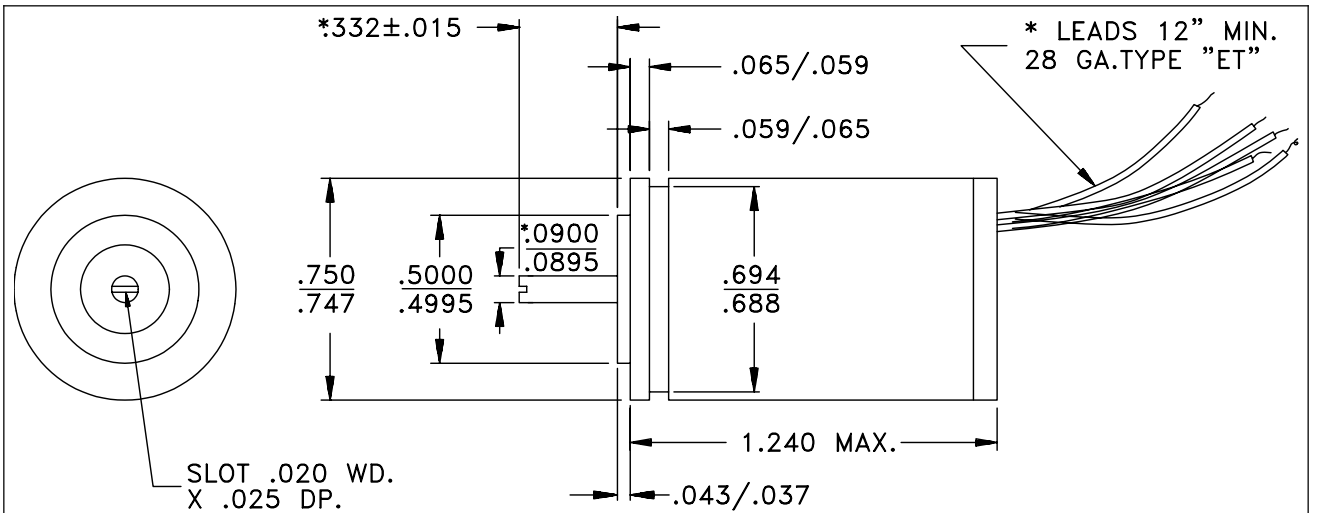


S-08 SERIES BRUSHLESS RESOLVER



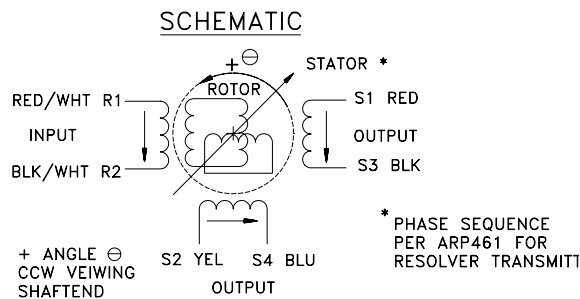
- NOTES:
1. ALL DIMENSIONS IN INCHES.
 2. RUN-OUT AT SHAFT NOT TO EXCEED 0.001 T.I.R. END PLAY 0.002/0.005.
 3. *VARIABLE TO CUSTOMER REQUIREMENTS.

DESCRIPTION

This unit is a Brushless Resolver. Typical application of this unit is for Position Sensing/Transmitting of aircraft surfaces and controls for use in auto pilot systems. The resolver is designed as a single phase rotor input and a dual phase stator output.

ELECTRICAL CHARACTERISTICS

Input Voltage	12	Vrms
Input Frequency	2,500	Hz
Input Current	16	ma
Input Power	0.13	watts
Output Voltage	6	Vrms
Phase Shift	8°	leading
Transformation Ratio	0.5	
Total Null	30	mV max.
Input Resistance $\pm 15\%$	92	ohms
Output Resistance $\pm 15\%$	143	ohms
Input Impedance Z_{IN} (ref.)	727	ohms
Output Impedance Z_{OUT} (ref.)	222	ohms
Accuracy	± 7	minutes



$$V_o(S_1S_3) = 0.454V_{IN}(R_1R_2) \cos(\theta)$$

$$V_o(S_2S_4) = 0.454V_{IN}(R_1R_2) \sin(\theta)$$

OPTIONS

- Different input/output voltages.
- Different frequency up to 5 kHz.
- Single phase input and output.

We welcome requests for modifications to fit your exact needs.

P/N 08BRX5-A01-000		Date: 4/7/2006	
SCOT ELECTRICAL PRODUCTS Division of Win Technologies Inc.	Title S-08 Series Brushless Resolver	DWG # SBN 1035	REV A
		FSCM No. ONFF5	
800-1 Frontenac Rd. • Aurora, IL 60504 • Phone 630 236 1020 • Fax 630 236 1030 • www.Scot-Wintech.com			Sheet 1 of 1