

# Hollow Shaft Resolver

## SAC-RL500-xxx

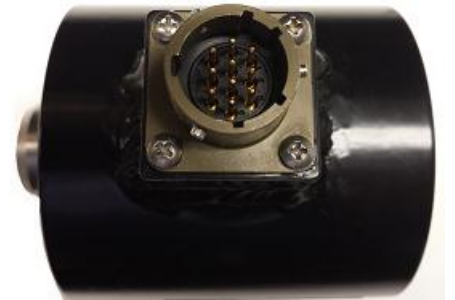
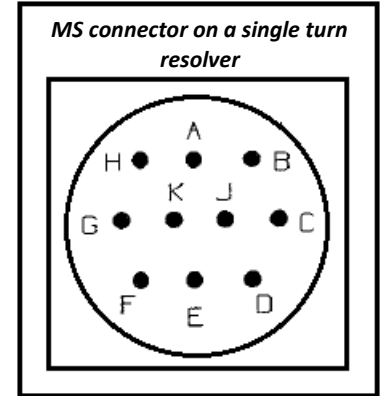
The hollow shaft resolver, SAC-RL500-xxx is a size 21, with 0.708" internal dia.

The wiring information, specifications and mechanical dimensions are given below.

### Specifications

Electrical	
Frequency	2250 Hz
Input Voltage	1.88 V
Input Current	6mA
Input Power	6.5mW
Open circuit Zro	180+j256 ohms
DC resistance (Rotor)	18.3 Ohms
Output voltage (Stator)	2.63 V 5%
Transformation ratio	1.400
Mechanical	
Max. Slew Speed (RPM)	5000
Max. Shaft Loading Axial (lbs.)	50
Radial (lbs.)	100
Bearing Life at Max. Mfr. Spec (Rev)	2x10 <sup>9</sup>
Approx. Weight (lbs.)	7
Environmental	
Shock	200g for 11mSec
Vibrations	20g to 2000Hz
Operating Temperature	-57° to 248° F
Storage Temperature	-85° to 302° F
Enclosure	NEMA 13

Wiring Table for Single-turn Resolvers		
<i>CBL-10T22-xxxx wire color</i>	<i>Function</i>	<i>Resolvers with MS connectors Pin #</i>
Black/Green <i>Twisted pair</i>	R1 Rotor R2 Rotor	F E
Black/Yellow <i>Twisted pair</i>	S1 Stator S3 Stator	D C
Black/Blue <i>Twisted pair</i>	S2 Stator S4 Stator	B A
Shield	CaseGround	G
<b>Notes:</b> 1. Black/Green indicates a black wire with green stripes 2. An overall foil shielded cable with twisted pairs, (such as Autotech's cable CBL-10T22-xxxx must be used for wiring the unit. The pairs must be formed as follows: S1&S3, S2&S4, R1&R2 3. MS connector: MS3112E-12-10P: Mating connector: MS3116F-12-10S (Autotech part number: ECM-10REC-ITT)		



### Mechanical Dimensions

