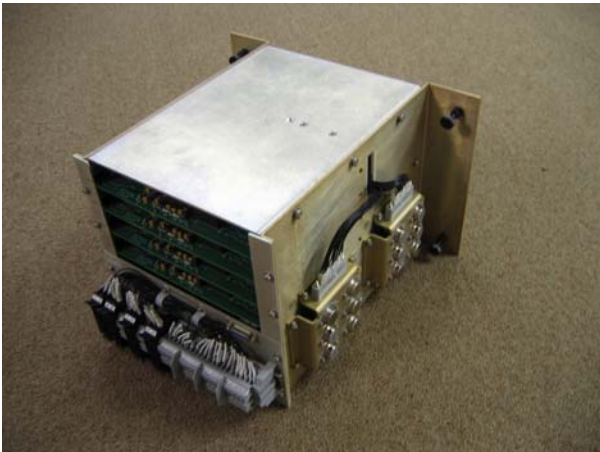




BBG-USCG-SSCS

Synchro Signal Conversion System



Description

The Synchro Signal Conversion System (SSCS) is a stand-alone system, which provides amplification of low power synchro signals into 125VA synchro signals. The SSCS provides four channels synchro conversion.

The SSCS is factory configurable to customer requirements for easy field installation.

Applications

- Radar Systems (antenna azimuth)
- Navigation Systems (gyrocompass, speedlog, course, pitch, and roll)
- Industrial Processes (position, velocity)
- Meteorology Instruments (wind speed and direction)
- Many Others

Features

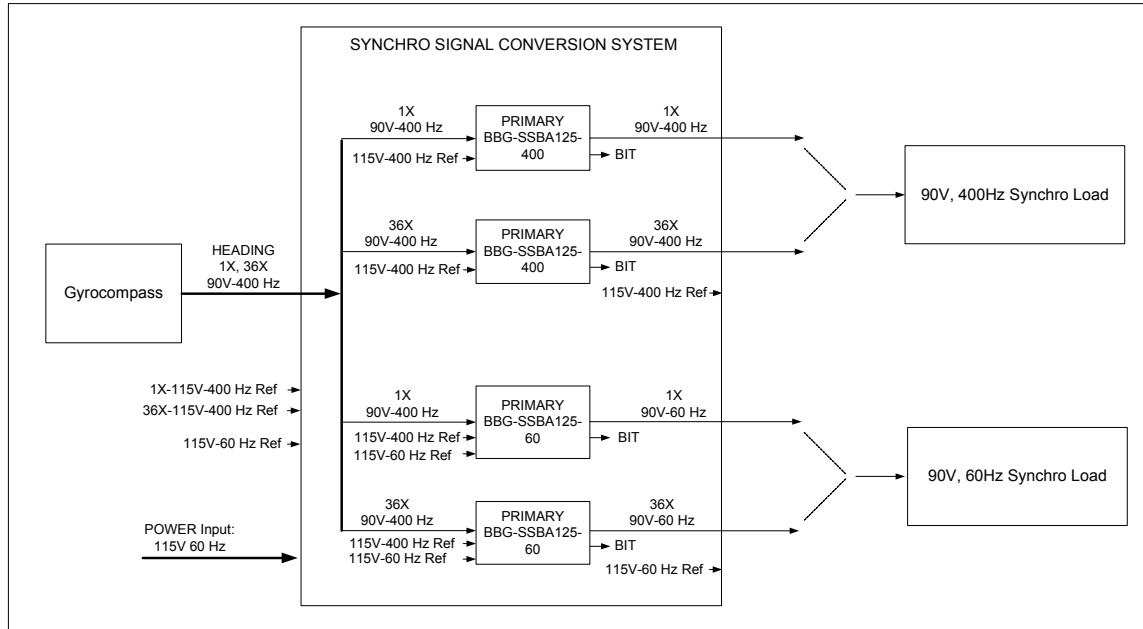
- 6.81Vrms Resolver
- 11.8 or 90 Vrms Synchro
- High Efficiency
- 125 VA (Peak), 30VA (Continuous) Output
- Short Circuit and Transient Protected
- Temperature Protected
- Enable, BIT and Kick Circuitry

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Chart



The SSSC operates on 115 Volt, 60 Hz AC power to convert synchro inputs into high power synchro outputs. The SSSC accepts two channels of 60 Hz synchro data and two channels of 400 Hz synchro data. Custom channels are available upon request.

The SSSC provides four channels of synchro/resolver to high power synchro conversion. Each channel is fault protected against over current and over temperature faults. In addition, the SSSC provides power supply status, BIT status and internal kick circuitry for added control and protection. An onboard microcontroller configures the cards from power up or reset and provides all signals and control to read the synchro input information and output the 125VA synchro/resolver information. Health monitoring of each 1X/36X channel for over-current, over-temperature and loss of reference is provided via visual display indicators. Synchro data formats, power outputs, synchro and resolver voltages and frequencies are factory configured to user requirements.

Technical Specifications



Parameter	Value	Units
Power Input	115	Volts AC
	60	Hertz
	6.3	Amps
Temperature Range		
Operating	-25 to +85	°C
Storage	-65 to +125	°C
Inputs		
Reference Input	115	Volts AC
	60/400	Hertz
Synchro (Channel 1 1X, 36X)	90	Volts
	60/400	Hertz
Synchro (Channel 2 1X, 36X)	90	Volts
	60/400	Hertz
Outputs		
Synchro (Channel 1 1X, 36X)	90	Volts
	400	Hertz
	125	VA (Peak)
	30	VA (Continuous)
Synchro (Channel 2 1X, 36X)	90	Volts
	60	Hertz
	125	VA (Peak)
	30	VA (Continuous)
Accuracy	+/- 4	arc minutes
Dimensions	30.0 W x 12.0 H x 12.0 D	In
	76.2 x 30.48 x 30.48	Cm



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INPUTS/OUTPUTS

Inputs and outputs are available on DIN rail terminal blocks provided with the RSSS. Inputs and outputs are listed below:

I/O CONNECTOR TYPE: DIN Terminal Blocks

CONNECTOR MATE: Ferrules

Signal	Connector
Chassis Ground (E1)	TB1
ACN_60Hz (115V, 60Hz Neutral)	TB2
ACL_60Hz (115V, 60Hz Line)	TB3
Chassis GND	TB4
R1_1X_115V_400Hz_IN	TB5
R2_1X_115V_400Hz_IN	TB6
S1_1X_90V_400Hz_IN	TB7
S2_1X_90V_400Hz_IN	TB8
S3_1X_90V_400Hz_IN	TB9
R1_36X_115V_400Hz_IN	TB10
R2_36X_115V_400Hz_IN	TB11
S1_36X_90V_400Hz_IN	TB12
S2_36X_90V_400Hz_IN	TB13
S3_36X_90V_400Hz_IN	TB14
R1_115V_60Hz_IN	TB15
R2_115V_60Hz_IN	TB16
1R1_1X_115V_400Hz_OUT	TB17
1R2_1X_115V_400Hz_OUT	TB18
1S1_1X_90V_400Hz_OUT	TB19
1S2_1X_90V_400Hz_OUT	TB20
1S3_1X_90V_400Hz_OUT	TB21
1R1_36X_115V_400Hz_OUT	TB22
1R2_36X_115V_400Hz_OUT	TB23



Signal	Connector
1S1_36X_90V_400Hz_OUT	TB24
1S2_36X_90V_400Hz_OUT	TB25
1S3_36X_90V_400Hz_OUT	TB26
2R1_1X_115V_60Hz_OUT	TB27
2R2_1X_115V_60Hz_OUT	TB28
2S1_1X_90V_60Hz_OUT	TB29
2S2_1X_90V_60Hz_OUT	TB30
2S3_1X_90V_60Hz_OUT	TB31
2R1_36X_115V_60Hz_OUT	TB32
2R2_36X_115V_60Hz_OUT	TB33
2S1_36X_90V_60Hz_OUT	TB34
2S2_36X_90V_60Hz_OUT	TB35
2S3_36X_90V_60Hz_OUT	TB36

