## **SC-200 Abridged Specifications**

+15 to +30 V DC (+24 V DC nominal), 80 mA maximum at 24 V DC; +15 V DC and -15 V DC needed for  $\pm 10$  V DC bipolar output Operating power:

Excitation voltage:

3.0 Vrms (nominal) push-pull drive (factory default) 4.5 Vrms (nominal) push-pull drive (with shift of jumper J7 on pc board) 1.5 Vrms (nom) single-ended drive for low impedance (100 -150  $\Omega$ ) primary

Excitation frequencies: 2.5 kHz, 5 kHz, 7.5 kHz, and 10 kHz (nominal).

LVDT AC output range: 50 mVrms to 5000 mVrms at LVDT's full scale position

Analog DC outputs: 0 - 5 V, 1 - 5 V, 0.5 - 4.5 V, 0.5 - 9.5 V, 0 - 10 V, -10 to +10 V, 0 - 20 mA 3-wire sourcing, 4 - 20 mA 3-wire sourcing

Loop resistance: 850 Ohms maximum at 24 V DC supply <0.025% of Full Span Output (FSO) Output non-linearity:

-3 dB at 10% of excitation frequency (minimum) (standard: DS2-4 off) -3 dB at 10 Hz (nominal) (reduced bandwidth setting: DS2-4 on) Frequency response:

Up to ±3 V DC floating Null output signal:

0 to 75 C Operating temperature:

Temperature Coefficient 0.002% of FSO/ºC (combined span and zero shift)

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[113.6] 4.5		

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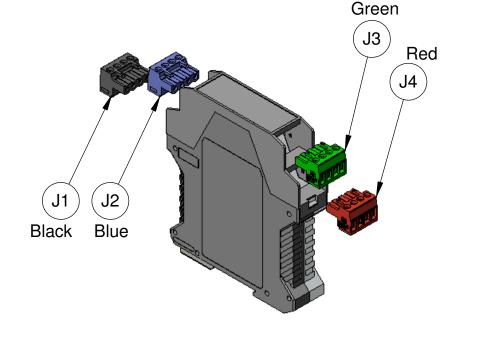
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Reference: SC-200 manual at ASG website: www.alliancesensors.com

J1 1 2 3 4
J2 1 2 3 4
POWER FULL SCALE
P ⊕ + E ⊕ 0
ZERO
J3 1 2 3 4

J1-1	Black	LVDT Primary High <i>or</i> Half-bridge High End
J1-2	Black	LVDT Primary Low <i>or</i> Half-bridge Low End
J1-3	Black	LVDT Secondary Low (Ground if J201 is ON for SC-100 mode)
J1-4	Black	LVDT Secondary High <i>or</i> Half-bridge Mid-tap
<b>J2-1</b>	Blue	LVDT Secondaries Junction Point (Shield Ground if J9 is ON)
J2-2	Blue	Failure Warning Output (Open Collector Switch, 50 mA max.)
<b>J2-3</b>	Blue	-15 V DC input for ±10 V DC output (Shield Ground if J8 is ON)
J2-4	Blue	Sync Input / Output (Master / Slave Bus)
J3-1	Green	RS-485 Data Line (D +)
J3-2	Green	RS-485 Data Line (D - )
J3-3	Green	Analog Output Ground (Common Ground)
J3-4	Green	Analog Output (+) (Voltage or Current, as selected with DS1)
J4-1	Red	Null Indicator Differential DC Output (floating)
J4-2	Red	Null Indicator Differential DC Output (floating)
J4-3	Red	Power Ground (Common Ground)
J4-4	Red	Power Input (+) (15 to 30 V DC)

SC-200 LVDT Signal Conditioner Module I/O Connections



**REVISIONS** 

DATE

09-30-20

**APPROVED** 

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**DESCRIPTION** 

Ref: ECN 20-313

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UNLESS OTHERWISE SPECIFIED:	CONTRACT NO.		<b>A</b>	C			EDAST
1. DO NOT SCALE DRAWING 2. DIMENSIONS ARE IN INCHES 3. INTERPRET DIM/TOL PER ANSI Y14.5M-1994			ALLIAN	CE SE	NSORS .	GROUP CHAEVITZ LLC	09-30
4. DEBURR/BREAK SHARP EDGES 5. DIMS ARE BEFORE FINISH 6. (DATA) FOR REFERENCE ONLY		DATE: 09-10-17	Moorestown		N OF H.G. S ' USA alliance		-20 B
TOLERANCES	Engineer: Ed Herceg	09-10-17	SC-200 I VI	T Signal (	Conditioner	Modula Assi	<u>  *</u>
DECIMAL: ANGULAR: XX ±.010 ±.5°	CHECKED BY: Ed Herceg OA:	09-10-17	SC-200 LVDT Signal Conditioner Module Assy Outline			GE GE	
THIRD ANGLE PROJECTION	MFG:		SIZE: CAGE CODE N/A	DWG. NO. <b>50</b>	00-0005	REV	
	APPROVED BY:		FILENAME:	SCALE: N/A	RELEASE DATE:	SHEET 1 OF 1	Г