

Schaevitz Sensors

FINAL TEST GA-HD GCA-121-250 ASSY

30810100-000

RANGE +/- .25 Inches

INDEPENDENT LINEARITY DATA

LEAST SQUARES LINE

S/N J16871

2006-09-24

MEASURED Inches	MEASURED Volts RMS	CALC. Volts RMS	CALC. DEVIATION
-0.2500	+1.1909	-1.1904	-0.0005
-0.2000	+0.9486	-0.9517	+0.0031
-0.1500	+0.7109	-0.7130	+0.0021
-0.1000	+0.4751	-0.4742	-0.0008
-0.0500	+0.2384	-0.2355	-0.0029
+0.0500	+0.2401	+0.2420	-0.0019
+0.1000	+0.4790	+0.4807	-0.0017
+0.1500	+0.7178	+0.7195	-0.0017
+0.2000	+0.9581	+0.9582	-0.0001
+0.2500	+1.2015	+1.1970	+0.0045

Linearity = .19%

Sensitivity = 1.59161 mv/Volts RMS/.001 Inches

NULL (actual) = .006168 Volts RMS

Tested by Tabb

Inspected by Ca

- HRSL - TANGENT LVDT
- LINK SIDE CLOSEST TO DOWNSTREAM BEAMLINE
- CONNECTED TO "LVDTØ" CHANNEL OF V550

Schaevitz Sensors

FINAL TEST GA-HD GCA-121-250 ASSY

30810100-000

RANGE +/- .25 Inches

INDEPENDENT LINEARITY DATA

LEAST SQUARES LINE

S/N J15978

2006-07-23

MEASURED Inches	MEASURED Volts RMS	CALC. Volts RMS	CALC. DEVIATIO
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-0.2500	+1.2048	-1.2019	-0.0029
-0.2000	+0.9601	-0.9615	+0.0014
-0.1500	+0.7193	-0.7212	+0.0019
-0.1000	+0.4801	-0.4808	+0.0007
-0.0500	+0.2407	-0.2405	-0.0002
+0.0500	+0.2411	+0.2402	+0.0009
+0.1000	+0.4803	+0.4806	-0.0003
+0.1500	+0.7190	+0.7209	-0.0019
+0.2000	+0.9594	+0.9613	-0.0018
+0.2500	+1.2038	+1.2016	+0.0022

Linearity = .12%

Sensitivity = 1.60233 mv/Volts RMS/.001 Inches

NULL (actual) = .007165 Volts RMS

Tested by §

Inspected by fu

- HRSL - RADIAL LVDT
- LINK SIDE CLOSEST TO DOWNSTREAM BEAMLIN
- CONNECTED TO "LVDT1" CHANNEL OF V550

Schaevitz Sensors

FINAL TEST GA-HD GCA-121-250 ASSY

30810100-000

RANGE +/- .25 Inches

INDEPENDENT LINEARITY DATA

LEAST SQUARES LINE

S/N J16860

2006-09-24

MEASURED Inches	MEASURED Volts RMS	CALC. Volts RMS	CALC. DEVIATION
-0.2500	+1.1939	-1.1930	-0.0009
-0.2000	+0.9515	-0.9541	+0.0026
-0.1500	+0.7135	-0.7152	+0.0017
-0.1000	+0.4771	-0.4763	-0.0007
-0.0500	+0.2397	-0.2375	-0.0022
+0.0500	+0.2394	+0.2403	-0.0008
+0.1000	+0.4781	+0.4791	-0.0010
+0.1500	+0.7164	+0.7180	-0.0016
+0.2000	+0.9563	+0.9569	-0.0006
+0.2500	+1.1993	+1.1958	+0.0035

Linearity = .15%

Sensitivity = 1.59249 mv/Volts RMS/.001 Inches

NULL (actual) = .005692 Volts RMS

Tested by 5466

Inspected by Ca

- HRSL - RADIAL LVDT
- LINK SIDE FARTHEST FROM DOWNSTREAM BEAMLINE
- CONNECTED TO "LVDT2" CHANNEL OF V550

Schaevitz Sensors

FINAL TEST GA-HD GCA-121-250 ASSY

30810100-000

RANGE +/- .25 Inches

S/N J16863

INDEPENDENT LINEARITY DATA

LEAST SQUARES LINE

2006-09-24

MEASURED Inches	MEASURED Volts RMS	CALC. Volts RMS	CALC. DEVIATION
-0.2500	+1.2065	-1.2055	-0.0010
-0.2000	+0.9620	-0.9640	+0.0021
-0.1500	+0.7210	-0.7226	+0.0016
-0.1000	+0.4816	-0.4811	-0.0005
-0.0500	+0.2415	-0.2396	-0.0019
+0.0500	+0.2431	+0.2433	-0.0002
+0.1000	+0.4842	+0.4848	-0.0005
+0.1500	+0.7247	+0.7262	-0.0015
+0.2000	+0.9669	+0.9677	-0.0008
+0.2500	+1.2120	+1.2092	+0.0029

Linearity = .12%

Sensitivity = 1.60978 mv/Volts RMS/.001 Inches

NULL (actual) = .006167 Volts RMS

Tested by 5466

Inspected by la

- HRSR-TANGENT LVDT
- LINK SIDE CLOSEST TO DOWNSTREAM BEAMLINE
- CONNECTED TO "LVDTØ" CHANNEL OF V550

Schaevitz Sensors

FINAL TEST GA-HD GCA-121-250 ASSY

30810100-000

RANGE +/- .25 Inches

S/N J15980

INDEPENDENT LINEARITY DATA

LEAST SQUARES LINE

2006-07-23

MEASURED Inches	MEASURED Volts RMS	CALC. Volts RMS	CALC. DEVIATIO
-0.2500	+1.2040	-1.2011	-0.0029
-0.2000	+0.9595	-0.9611	+0.0016
-0.1500	+0.7193	-0.7212	+0.0019
-0.1000	+0.4808	-0.4812	+0.0004
-0.0500	+0.2418	-0.2413	-0.0005
+0.0500	+0.2397	+0.2387	+0.0010
+0.1000	+0.4787	+0.4786	+0.0001
+0.1500	+0.7170	+0.7186	-0.0016
+0.2000	+0.9568	+0.9585	-0.0018
+0.2500	+1.2002	+1.1985	+0.0017

Linearity = .12%

Sensitivity = 1.59970 mv/Volts RMS/.001 Inches

NULL (actual) = .006696 Volts RMS

Tested by S

Inspected by Ju

- HRSR - RADIAL LVDT
- LINK SIDE CLOSEST TO DOWNSTREAM BEAMLIN
- CONNECTED TO "LVDT1" CHANNEL OF V550

Schaevitz Sensors

FINAL TEST GA-HD GCA-121-250 ASSY

30810100-000

RANGE +/- .25 Inches

INDEPENDENT LINEARITY DATA

LEAST SQUARES LINE

S/N J15981

2006-07-23

MEASURED Inches	MEASURED Volts RMS	CALC. Volts RMS	CALC. DEVIATIO
-0.2500	+1.2071	-1.2036	-0.0035
-0.2000	+0.9619	-0.9631	+0.0011
-0.1500	+0.7208	-0.7225	+0.0017
-0.1000	+0.4813	-0.4819	+0.0006
-0.0500	+0.2414	-0.2414	+0.0000
+0.0500	+0.2417	+0.2397	+0.0020
+0.1000	+0.4812	+0.4803	+0.0009
+0.1500	+0.7199	+0.7209	-0.0010
+0.2000	+0.9595	+0.9614	-0.0019
+0.2500	+1.2021	+1.2020	+0.0001

Linearity = .15%

Sensitivity = 1.60374 mv/Volts RMS/.001 Inches

NULL (actual) = .00604 Volts RMS

Tested by S

Inspected by Ju

- HRSR - RADIAL LVDT
- LINK SIDE FARTHEST FROM DOWNSTREAM BEAMLINE
- CONNECTED TO "LVDT2" CHANNEL OF V550