

NOTES:

1. ELECTRO-ETCH THE FOLLOWING:
 MACRO SENSORS
 PENNSAUKEN, N.J. 08110
 HSI 750 XXXX
 SERIAL NO. XXXXX
 CAUTION! DO NOT CONNECT TO PIN B

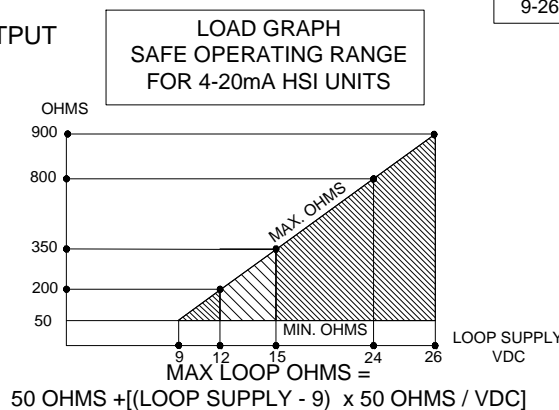
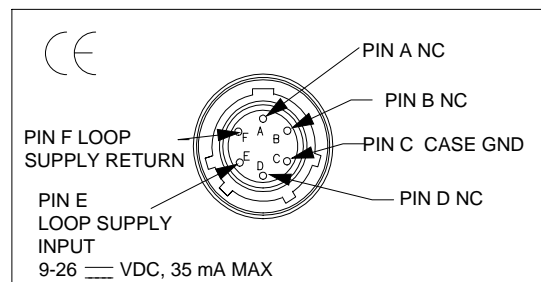
2. SEE SHT 2 FOR PART NO. MATRIX.

3. T B/L = TEFLON BORLINER

4. DIM "S" = CORE @ ZERO VOLTAGE OUTPUT POSITION

5. LEAST SQUARES BEST FIT STRAIGHT LINE (BFSL) REFERENCED

6. ELECTRO-ETCH CONNECTOR INFO ON BODY OF UNIT ("CE" REQUIRED) AS FOLLOWS:



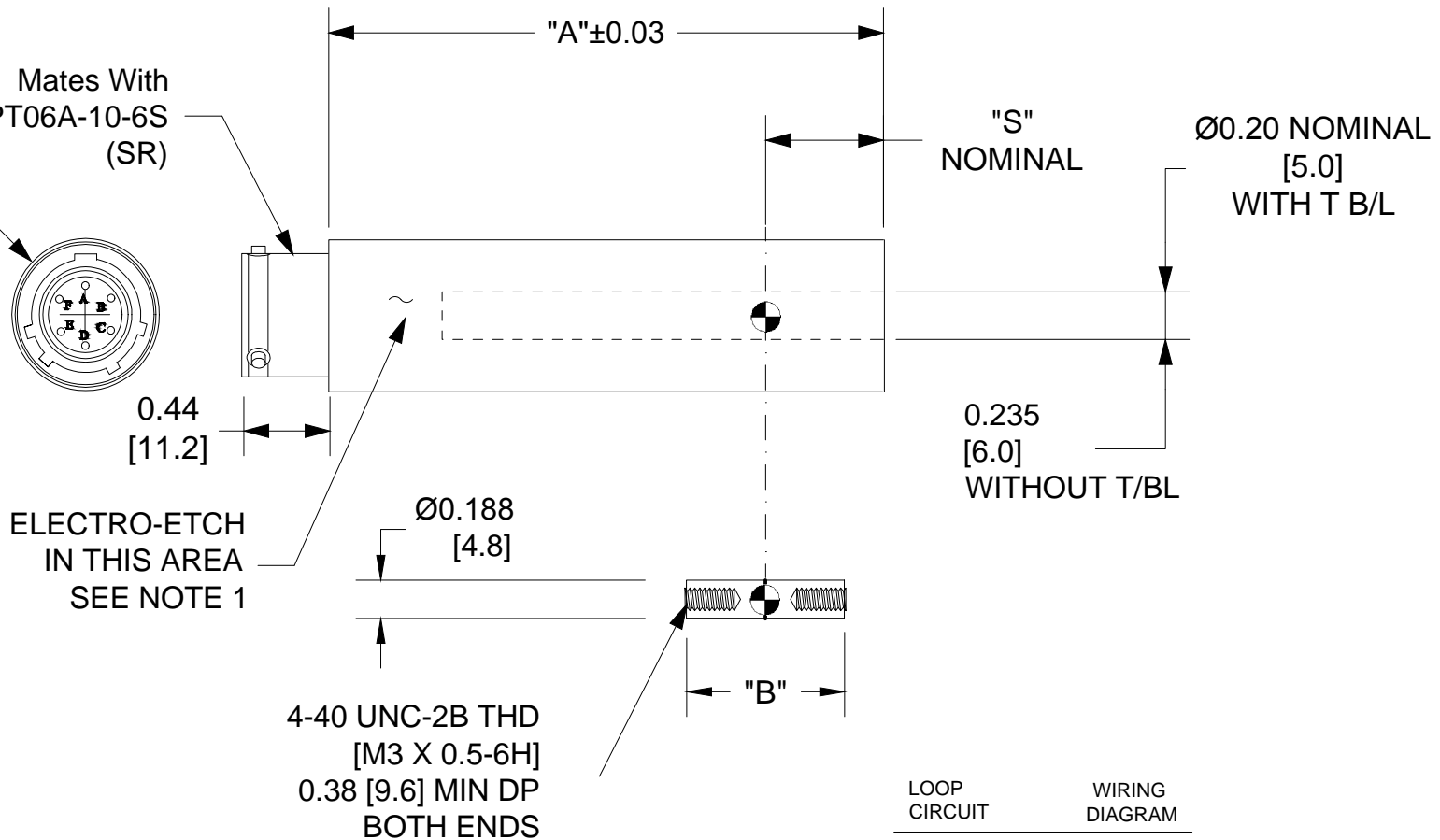
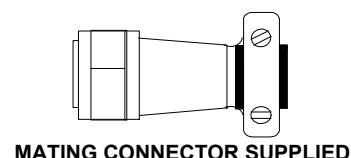
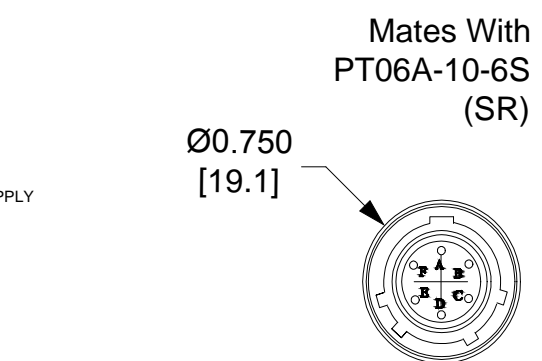
REVISIONS

REV.	DESCRIPTION	DATE:	APPR.
A	REFORMAT PER ECN # 1100, A.L.J.	4/23/08	MFG
B	REVISED PER ECN # 2120	6/23/15	
B1	REDRAWN WITH NO CHANGES	5/14/20	

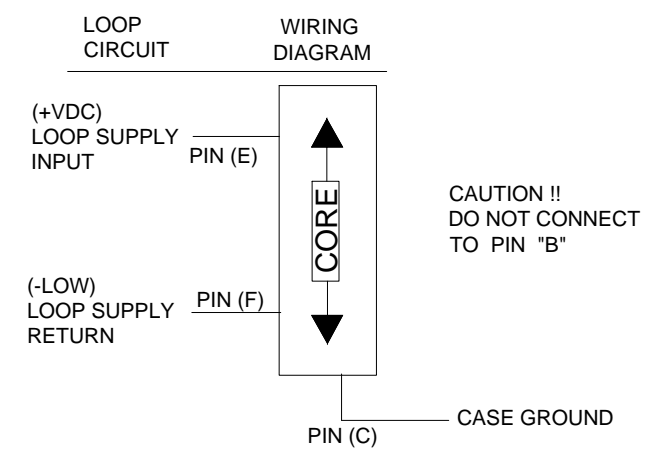
COMMON SPECIFICATION	
OUTPUT (NOM.)	4-20 mA
TEST VOLTAGE	24 VDC
LOOP SUPPLY VOLTAGE RANGE	9-26 VDC
OUTPUT at 50% OF STROKE	12mA ±0.5% FULL RANGE SEE NOTE 5
LINEARITY ERROR	±0.25% OF FULL RANGE (MAX) SEE NOTE 5
NOISE RIPPLE	< 8 MICRO AMPS RMS
OPERATING TEMPERATURE	-20°C to +85°C (0 TO 185°F)
NULL (12mA) TEMP SHIFT	0.01% / ° C (NOMINAL)
S.F. TEMPERATURE SENS.	0.027% / ° C (NOMINAL)
REPEATABILITY	0.025% FULL RANGE OUTPUT
RESOLUTION	0.025% FULL RANGE OUTPUT

DESCRIPTION	LTR DIMENSIONS		
	BODY DIM "A" ±0.03	DIM "S" NOMINAL	CORE DIM "B"
HSI 750 100	2.86 [72.6]	0.58 [14.61]	0.800 [20.3]
HSI 750 250	3.48 [88.39]	1.01 [25.65]	1.250 [31.8]
HSI 750 500	4.25 [107.95]	1.07 [27.28]	1.650 [41.9]
HSI 750 1000	6.70 [170.2]	2.07 [52.58]	3.450 [87.6]
HSI 750 2000	8.20 [208.3]	2.32 [58.98]	3.450 [87.6]
HSI 750 4000	11.71 [298.2]	3.07 [78.0]	5.300 [134.6]
HSI 750 6000	14.45 [367.0]	3.29 [83.64]	6.200 [159.5]
HSI 750 8000	16.95 [430.5]	3.65 [92.71]	6.200 [157.5]
HSI 750 10000	19.45 [492.8]	3.94 [100.10]	6.200 [157.5]
HSI 750 15000	25.01 [635.25]	4.03 [102.36]	7.000 [177.8]
HSI 750 20000	32.33 [821.18]	5.42 [137.67]	9.500 [241.3]

DESCRIPTION	STANDARD		METRIC	
	ELECTRICAL STROKE	SCALE FACTOR	ELECTRICAL STROKE	SCALE FACTOR
		mA/INCH ±1% (NOMINAL)		mA/mm ±1% (NOMINAL)
HSI 750 100	0 - 0.10 INCH	160 mA / INCH	0 - 2.5 mm	6.4 mA / mm
HSI 750 250	0 - 0.25 INCH	64 mA / INCH	0 - 6.0 mm	2.67 mA / mm
HSI 750 500	0 - 0.50 INCH	32 mA / INCH	0 - 12.5 mm	1.28 mA / mm
HSI 750 1000	0 - 1.0 INCH	16 mA / INCH	0 - 25 mm	0.64 mA / mm
HSI 750 2000	0 - 2.0 INCH	8.0 mA / INCH	0 - 50 mm	0.32 mA / mm
HSI 750 4000	0 - 4.0 INCH	4.0 mA / INCH	0 - 100 mm	0.16 mA / mm
HSI 750 6000	0 - 6.0 INCH	2.67 mA / INCH	0 - 150 mm	0.11 mA / mm
HSI 750 8000	0 - 8.0 INCH	2.0 mA / INCH	0 - 200 mm	0.08 mA / mm
HSI 750 10000	0 - 10.0 INCH	1.6 mA / INCH	0 - 250 mm	0.06 mA / mm
HSI 750 15000	0 - 15.0 INCH	1.07 mA / INCH	0 - 375 mm	0.04 mA / mm
HSI 750 20000	0 - 20.0 INCH	0.8 mA / INCH	0 - 500 mm	0.03 mA / mm



[] DENOTES MILLIMETERS
 ● ● DENOTES CENTER OF CORE AT POSITION "S".



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES TOLERANCES ARE: ANGLES: ±0.5° FRACTIONS: ±1/64 DECIMALS XX = ±.01 XXX = ±.005	DRAFTER: A.L.J.	DATE: 21 JUN 07
	CHECKER:	DATE:
	APPROVED: M.F.G.	DATE: 28 JUN 07
	APPROVED:	DATE:
FINISH:	APPROVED:	DATE:

AST MACRO SENSORS™
Your sensor business partner...

TITLE: **OUTLINE HSI 750 SERIES**

C.A.G.E. NO.	DRAWING NO.
A 06WW0	020917XXXXXX

SCALE: NONE SHEET NO: 1 OF 2

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