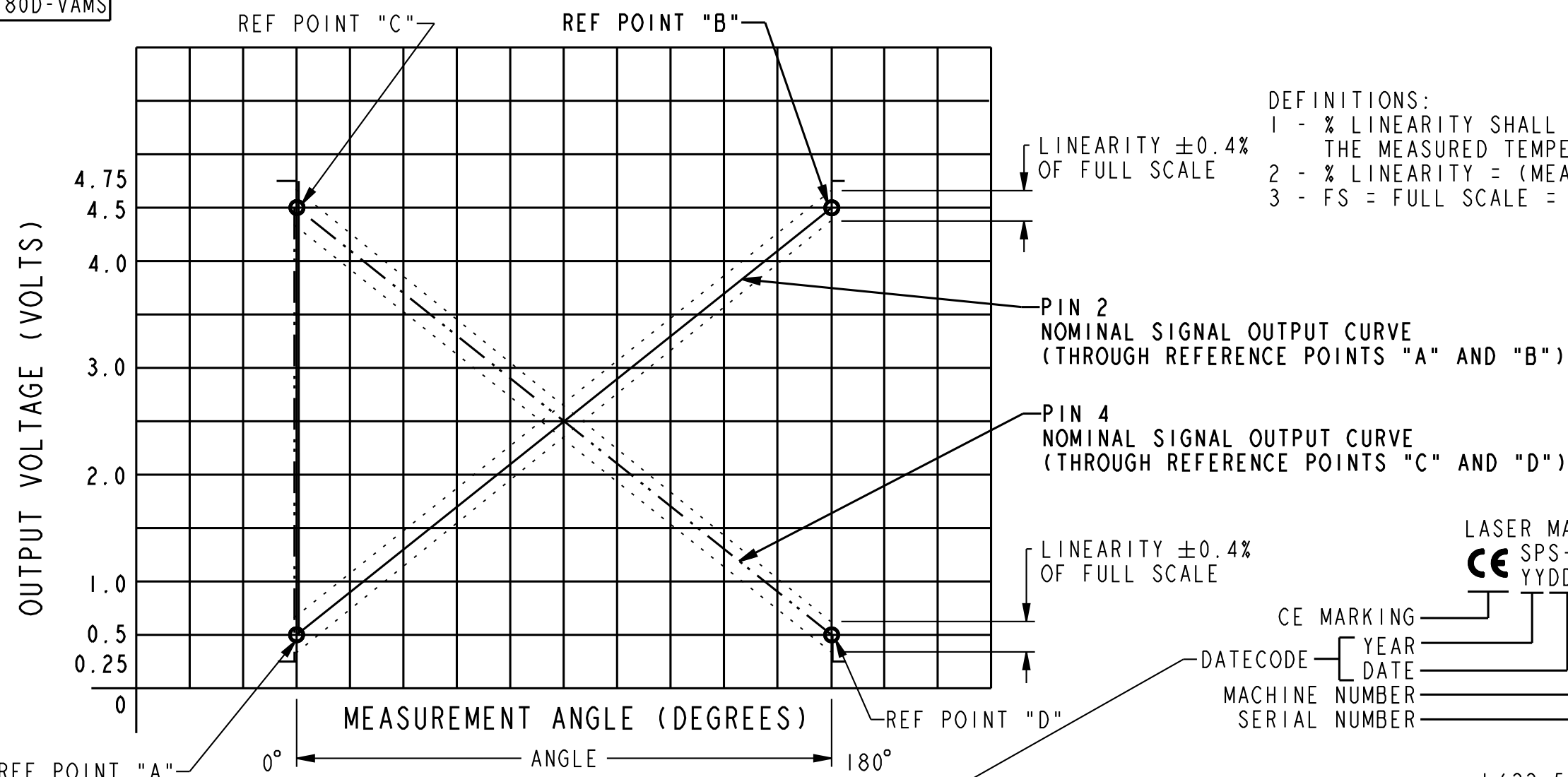


SENSOR OUTPUT PERFORMANCE CHART

REV	DOCUMENT	CHANGED BY	CHECK
F	0076277	MBN I1APRI1	DSK

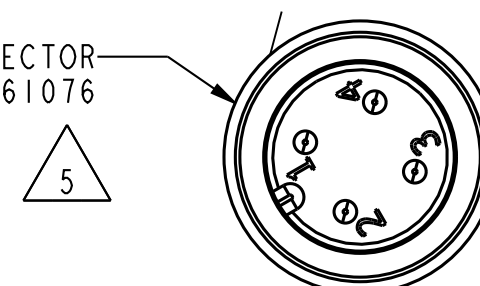


SENSOR OUTPUT PERFORMANCE				
PARAMETER	MIN	TYP	MAX	UNITS
SENSITIVITY	21.33	22.22	23.11	mV/DEGREE
MEASUREMENT DISTANCE	0	180		DEGREES
% LINEARITY	-0.4	0	0.4	% FS

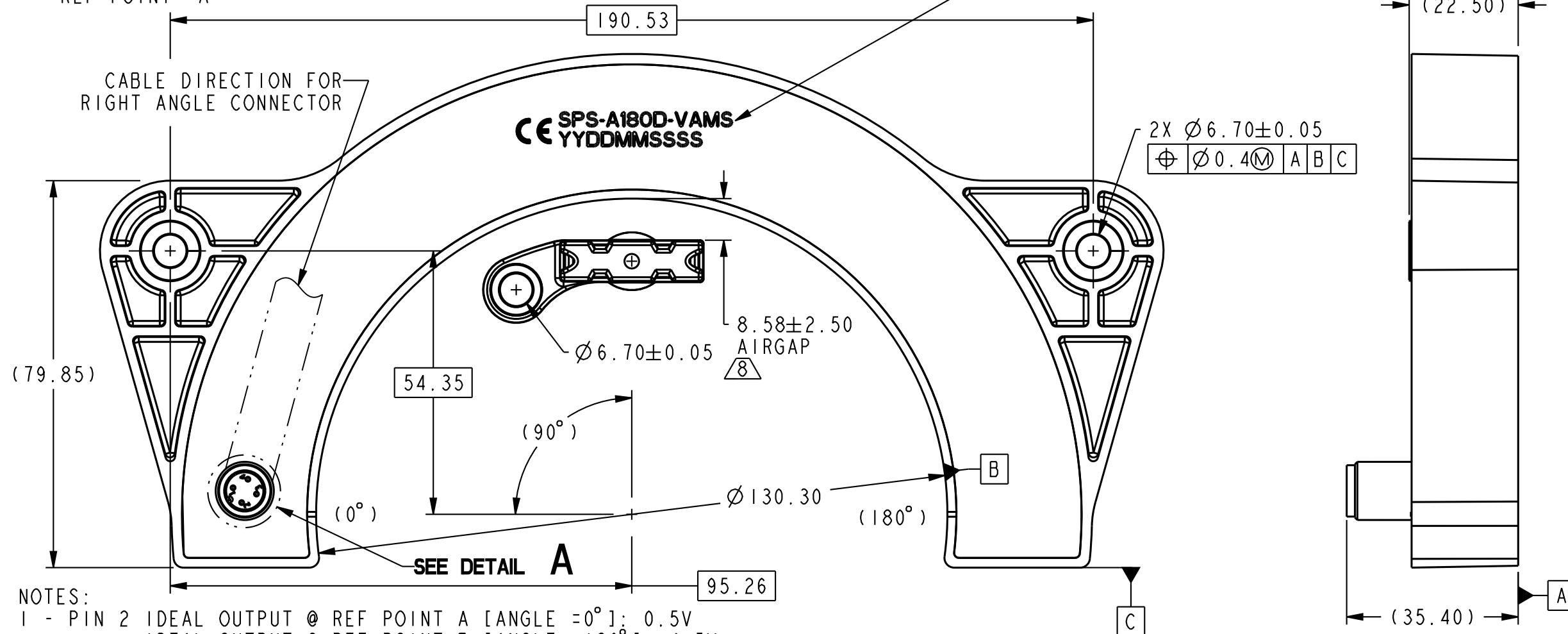
CE MARKING
LASER MARK
SPS-A180D-VAMS---HONEYWELL P/N
YYDDMMSSSS

DATECODE
YEAR
DATE
MACHINE NUMBER
SERIAL NUMBER

M12 (4 POS) CONNECTOR
A-KEYED PER IEC 61076



DETAIL A
SCALE 3:1



NOTES:

- PIN 2 IDEAL OUTPUT @ REF POINT A [ANGLE = 0°]: 0.5V
IDEAL OUTPUT @ REF POINT B [ANGLE = 180°]: 4.5V
- PIN 4 IDEAL OUTPUT @ REF POINT C [ANGLE = 0°]: 4.5V
IDEAL OUTPUT @ REF POINT D [ANGLE = 180°]: 0.5V
- OPERATING CONDITIONS:
TEMP RANGE -40°C TO 85°C
SUPPLY VOLTAGE 18.0 TO 40.0 VDC
SUPPLY CURRENT 45mA MAX
- MOUNTING
MAGNET PIN LOCATING HOLE: $\varnothing 10.25 \pm 0.10$
MOUNTING SCREWS: 1/4-20 OR M6
RECOMMENDED INSTALLATION TORQUE: 53.1 TO 70.8 IN-LBS (6 TO 8 N-M)
- CONNECTOR PINOUT:
PIN 1: SUPPLY VOLTAGE (+) PIN 2: OUTPUT
PIN 3: GROUND (-) PIN 4: INVERTED OUTPUT
ONLY OUTPUT PIN 2 OR PIN 4 CAN BE CONNECTED AT A TIME
- FERROUS MATERIAL WITHIN 100 MM (3.9") RADIUS OF MAGNET MAY IMPACT SENSOR PERFORMANCE
- DIAGNOSTIC - MAGNET OUT OF RANGE: PIN 2 > 4.55, PIN 4 < .45
- TOLERANCE APPLIES FOR FULL SENSE RANGE.
- DEVICE USED TO READ ANALOG OUTPUT MUST HAVE INPUT IMPEDANCE GREATER THAN 1 MEGAOHM.
- OUTSIDE OF THE VALID MEASUREMENT RANGE THE OUTPUT VOLTAGE WILL BE INDETERMINATE.
- DIRECT IMPACT TO THE CONNECTOR MAY COMPROMISE THE INTEGRITY OF THE SENSOR AND COMPROMISE THE SEAL RATING. HONEYWELL ADVISES MEASURES BE ESTABLISHED TO PREVENT DIRECT IMPACT.



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DESIGN UNITS: MM
TOLERANCES UNLESS NOTED:

NO PLACES	X	±	1.000
ONE PLACE	.X	±	0.40
TWO PLACE	.XX	±	0.150
THREE PLACE	.XXX	±	0.005
ANGLES	X	±	3.0°

THIRD ANGLE PROJECTION



DRAWN JLH 19JUL10
CHECK JLH 19JUL10

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INTERPRET PER ASME Y14.5M-1994
OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY

Pro/ENGINEER

Honeywell

TITLE
SMART POSITION SENSOR, 180 ARC

SIZE TYPE CAGE CODE DRAWING NAME
A2 I - SPS-A180D-VAMS

REV
F

SCALE 1:1
SHEET 1 OF 1