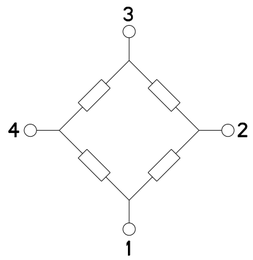
FO-55112-B

HONEYWELL PART NUMBER
SCDA120-XSC05DC

REV	DOCUMENT	CHANGED BY	CHECK
A	0008212	DVM 06OCT04	AK
B	0009154	KSR 08NOV04	AK

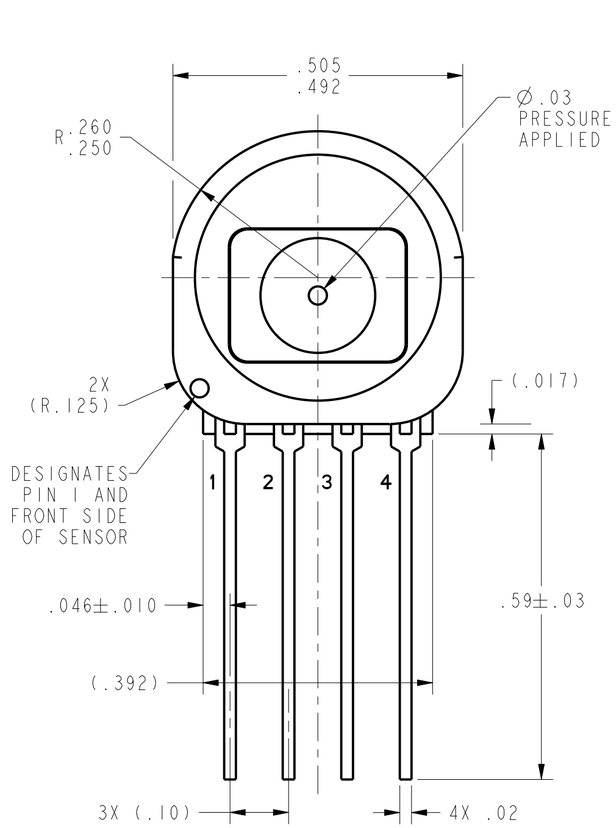
PERFORMANCE AT 25°C AND 12±0.01 Vdc (UNLESS OTHERWISE STATED)					FULL SCALE PRESSURE PSID	PROOF PRESSURE PSID	BURST PRESSURE PSID
SCDA120-XSC05DC	**MIN**	**NOM**	**MAX**	**UNITS**			
OFFSET (0 PSID)	-1	0	1	mVdc			
SPAN = (FULL SCALE - OFFSET)	57	60	63	mVdc	5	15	25
COMBINED LINEARITY AND HYSTERESIS △3	---	0.25	1	%FS			
NULL SHIFT OVER TEMPERATURE (0-25, 25-70 °C)	---	---	±1	mV			
SPAN SHIFT OVER TEMPERATURE (0-25, 25-70 °C)	---	---	±2	%FS			

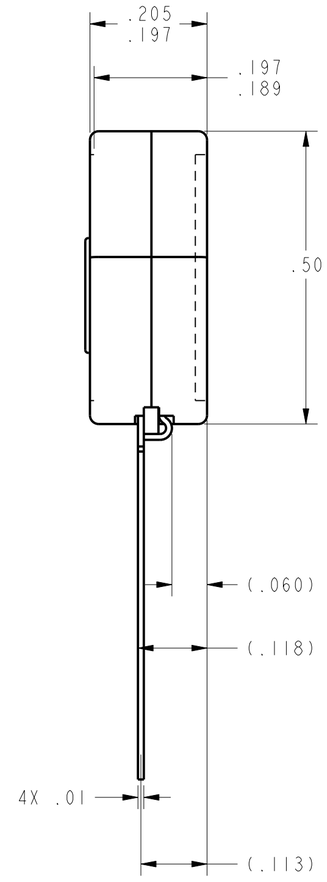
GENERAL OPERATING CHARACTERISTICS	ALL PRESSURES AND GRADES			
	MIN	**NOM**	**MAX**	**UNITS**
EXCITATION VOLTAGE	3	12	16	Vdc
SUPPLY CURRENT	---	---	3.5	mA
INPUT RESISTANCE	5	---	---	KΩ
OUTPUT RESISTANCE	---	3	---	KΩ
OPERATING TEMPERATURE	-25	---	85	°C
STORAGE TEMPERATURE	-40	---	125	°C



EQUIVALENT CIRCUIT

PIN OUT	
1	-V EXCITATION
2	+ OUTPUT SIGNAL
3	+V EXCITATION
4	- OUTPUT SIGNAL





NOTES
1 - SPAN IS THE ALGEBRAIC DIFFERENCE BETWEEN THE OUPUT AT FULL SCALE PRESSURE AND THE OUTPUT AT 0 PSID
2 - TEMPERATURE ERROR IS CALCULATED WITH RESPECT TO 25°C
△3 LINEARITY IS MEASURED AT 1/2 FULL SCALE PRESSURE USING BEST STRAIGHT LINE FIT
4 - THE OUTPUT OF THE SENSOR IS PROPORTIONAL, RATIOMETRIC, TO THE EXCITATION VOLTAGE. THE EXCITATION MAY VARY BETWEEN 3 TO 16 Vdc
ALL SPECIFICATIONS WILL NOMINALLY BE CHANGED BY THE RATIO OF $V_{EXCITATION}$/12.0 Vdc
5 - LIMIT SOLDERING TO 315°C FOR LESS THAN 10 SECONDS
6 - PIN NO. 1 IS IDENTIFIED BY THE DOT ON THE HOUSING AS SHOWN ON THE VARIOUS DRAWINGS
7 - APPLY PRESSURE AS INDICATED ON THE DRAWING
8 - SENSORS ARE OPERATIONAL OVER VACUUM PRESSURE RANGE
9 - INPUT MEDIA RESTRICTED TO DRY GASES ONLY

DESIGN UNITS: INCH
TOLERANCES UNLESS NOTED:

NO PLACE	X	±	0
ONE PLACE	.X	±	0.0
TWO PLACE	.XX	±	0.01
THREE PLACE	.XXX	±	0.005
FOUR PLACE	.XXXX	±	0.0005
ANGLES	X	±	3

THIRD ANGLE PROJECTION

DRAWN	DVM	06OCT04
CHECK	AK	06OCT04

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

Pro/ENGINEER 3D

Honeywell

TITLE
PRESSURE SENSOR

SIZE	TYPE	DRAWING NAME	REV
C	1	SCDA120-XSC05DC	B

SCALE 5:1 SHEET 1 OF 1

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