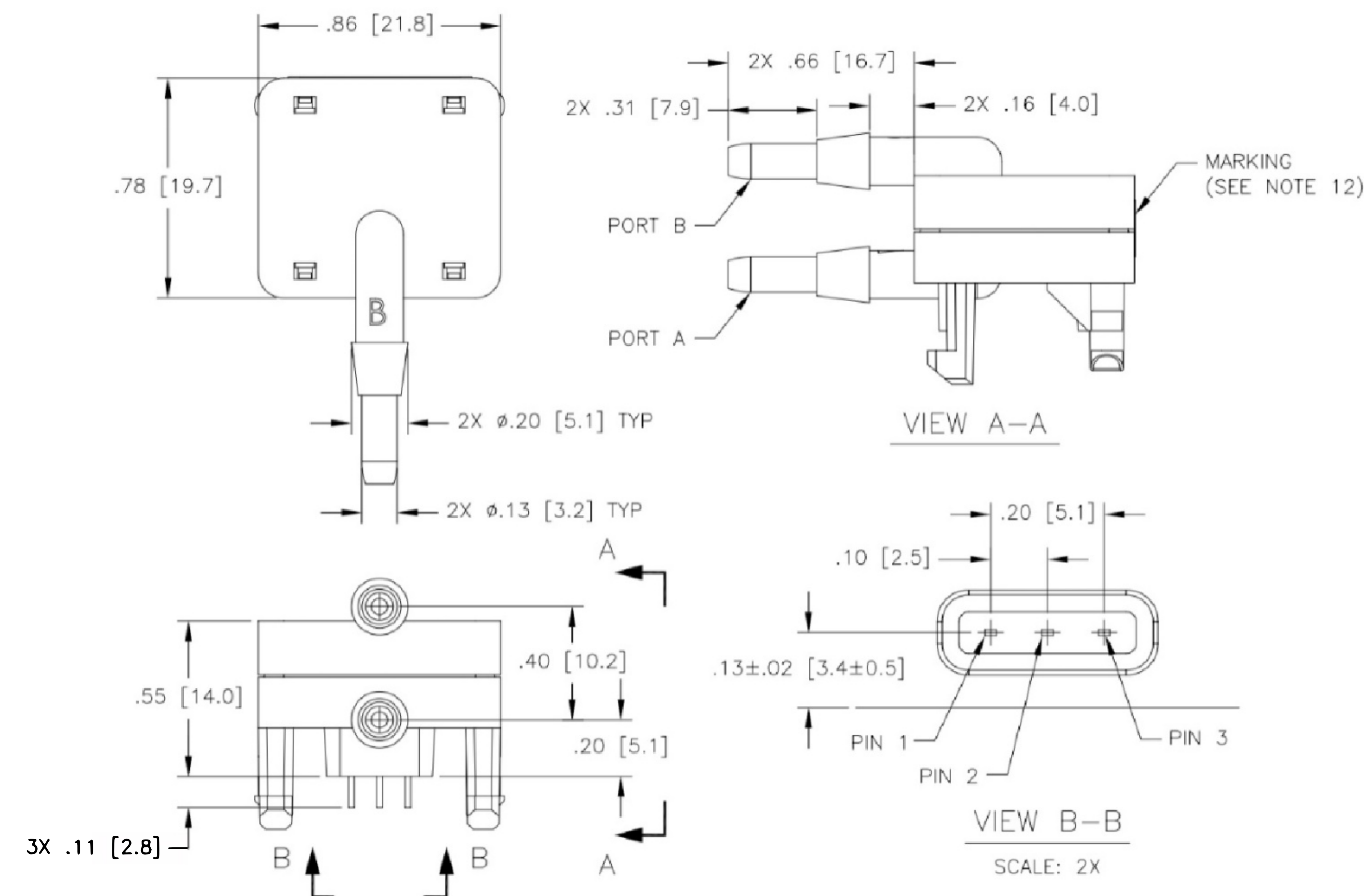


Model SAS11-xxxWD/PD

UNITS N INCHES [mm]



NOTES

- SPAN IS DEFINED AS THE ALGEBRAIC DIFFERENCE BETWEEN THE ELECTRICAL OUTPUT AT FULL SCALE PRESSURE AND THE ELECTRICAL OUTPUT AT ZERO PRESSURE.
- TEMPERATURE RANGE 0 C TO 60 C WITH RESPECT TO 25 C.
- APPROXIMATE TILT ERROR FROM VERTICAL TO HORIZONTAL POSITION.
- FOR FUNCTIONALITY, PARTS ARE CALIBRATED AT 5.0±.003V.
- 10mSEC MAX @ 25°C FOR OUTPUT TO REACH 63% FSO WITH STEP INPUT.
- DC TO 1 KHz
- AT NO LOAD CONDITION.
- PROOF PRESSURE EFFECT: ±0.25% SPAN MAXIMUM ON ZERO AND SPAN FOLLOWING APPLICATION OF PROOF PRESSURE.
- VIBRATION LIMITS: 10G SINUSOIDAL PER MIL-STD-810C, PROCEDURE 514.2-2, CURVE L
VIBRATION EFFECT: ±0.25% SPAN MAX ON ZERO & FSO WITH NO RESONANCE WITHIN SPECIFIED LIMITS.
- SHOCK LIMITS: 50G, 11mSEC, 1/2 SINE PER MIL-STD-202F, METHOD 213B, CONDITION A.
SHOCK EFFECT: ±0.25% SPAN MAXIMUM ON ZERO AND FSO WITHIN SPECIFIED LIMITS.
- HUMIDITY LIMITS: 95%RH. NON-CONDENSING ENVIRONMENT.
HUMIDITY EFFECT: ±0.10% SPAN ON ZERO AND FSO WITHIN SPECIFIED LIMITS.
- DEVICE MARKING: EACH DEVICE IS MARKED COMPLETE WITH MODEL NUMBER, LOT NUMBER AND SERIAL NUMBER (LLLL SSSS), AND DATE CODE (YYWW)

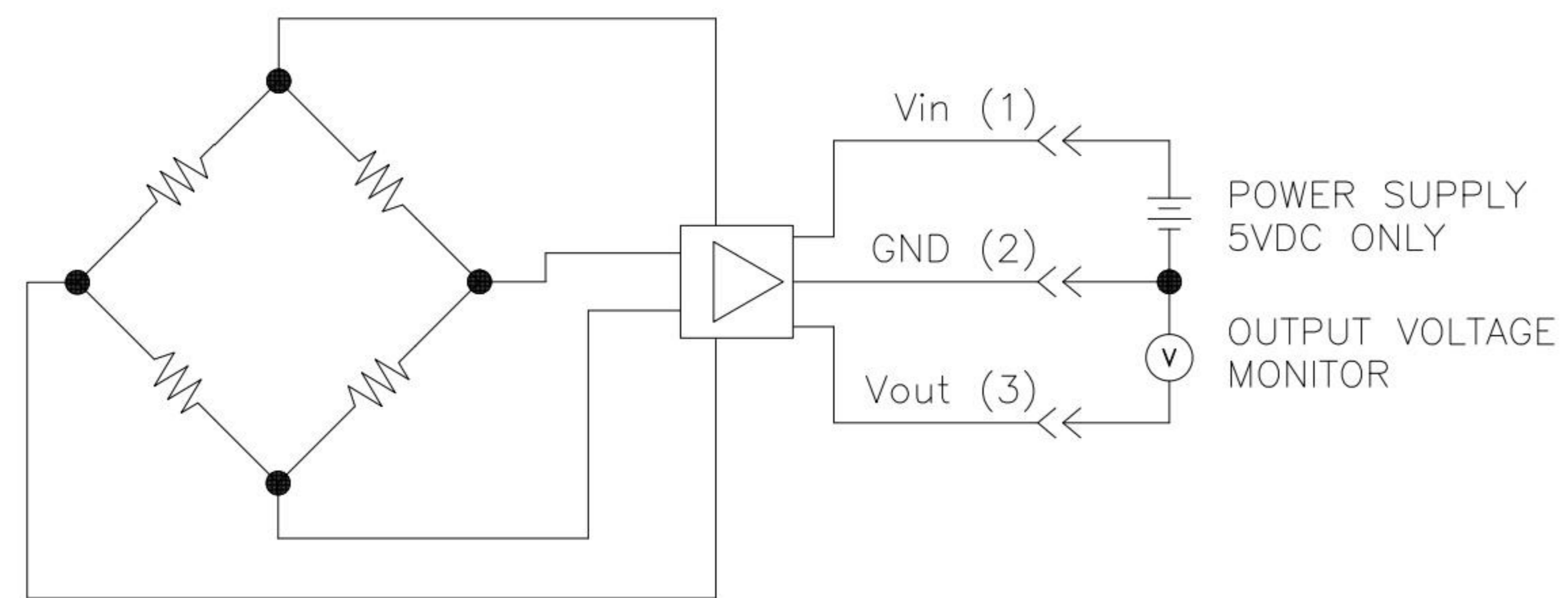
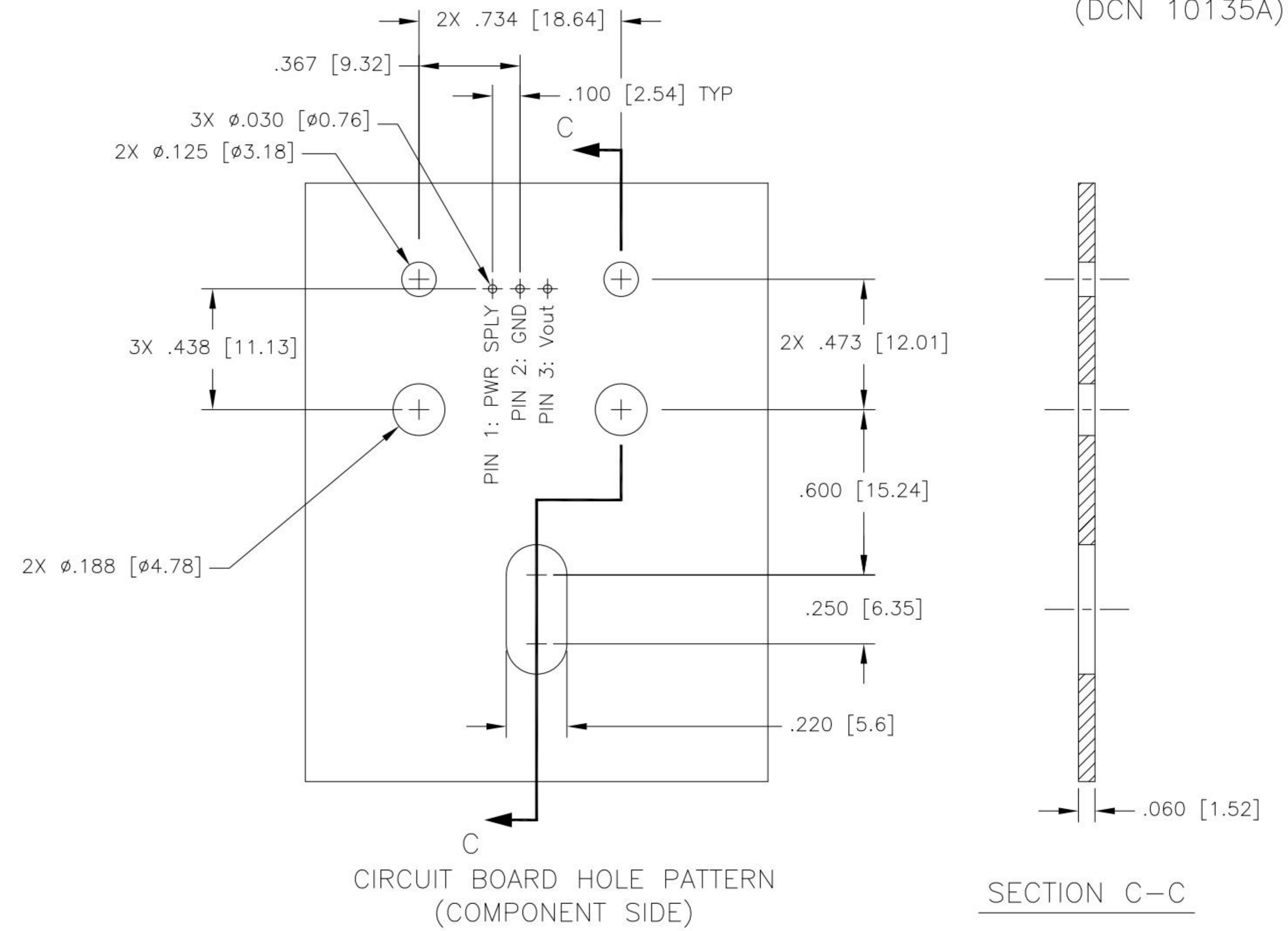
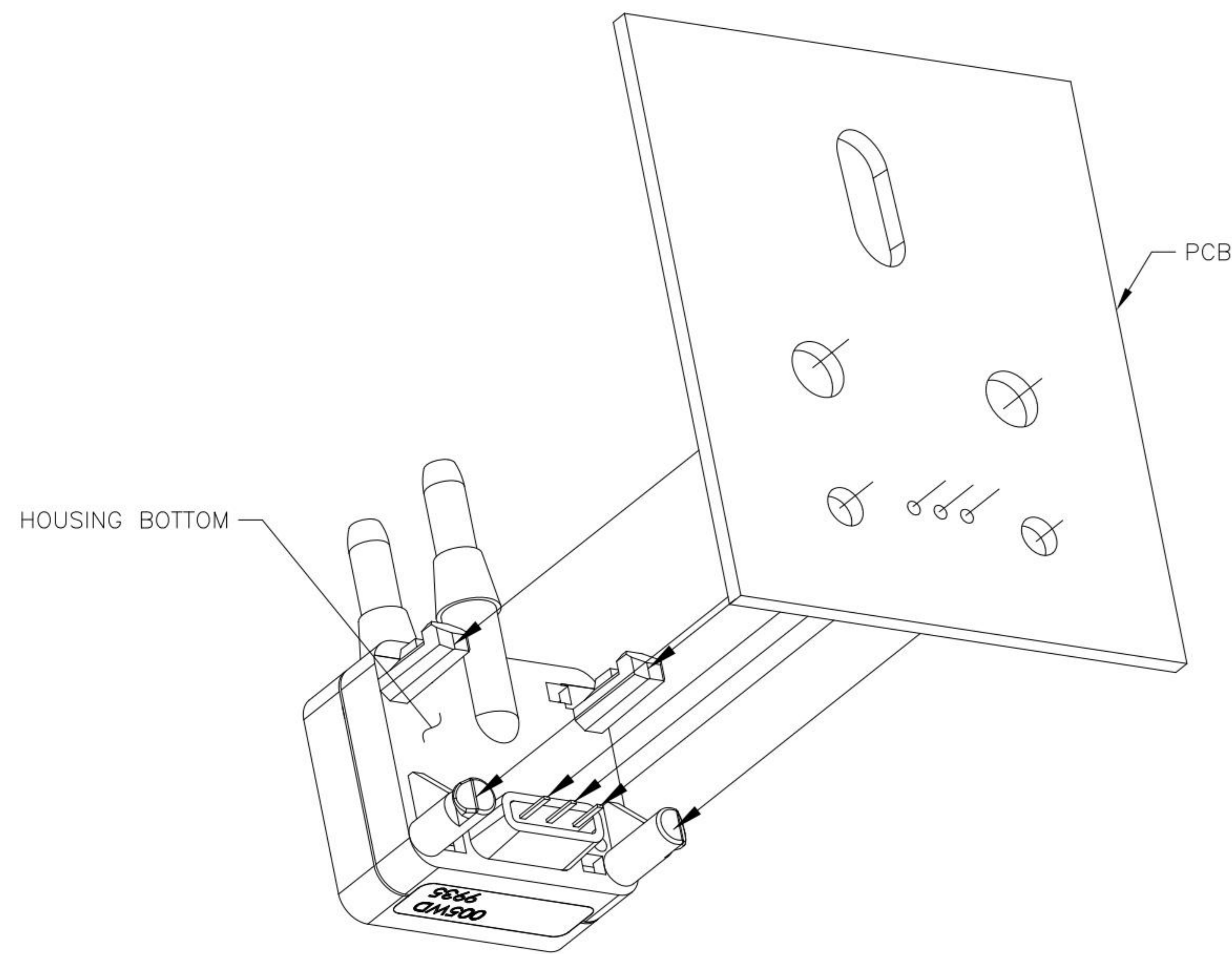
SPECIFICATIONS FOR 'PORT A' PRESSURE INPUT,
SUPPLY VOLTAGE: 5 VDC; AMBIENT TEMPERATURE: 25°C (UNLESS OTHERWISE SPECIFIED)

PARAMETERS		MIN	TYP	MAX	UNITS	NOTES
ZERO OFFSET	SA110	450	500	.550	V	
	SA111	.200	.250	.300		
SPAN	SA110	3.975	4.000	4.025	V	1
	SA111	3.725	3.750	3.775		
FULL SCALE OUTPUT	SA110	4.425	4.500	4.575	V	
	SA111	3.925	4.000	4.075		
TEMPERATURE ERROR, SPAN		-	-	±1.5	% SPAN	2
TILT ERROR		-	-	2	% SPAN	3
NON-LINEARITY (BFSL)		-	-	±0.25	% SPAN	
HYSTERESIS AND REPEATABILITY		-	-	±0.10	% SPAN	
SUPPLY VOLTAGE		4.75	5.00	5.25	V	4
WARM-UP TIME		10	-	-	SEC	
RESPONSE TIME		-	-	10	mSEC	5
OUTPUT NOISE		-	-	50	µV P-P	6
DC OUTPUT IMPEDANCE		-	-	8	Ω	
INPUT SUPPLY CURRENT		-	-	2.9	mA	7
MAXIMUM LOAD		25	-	-	KΩ	
LONG TERM STABILITY		-	±0.10	-	% SPAN/YR	
PROOF PRESSURE		3	-	-	PSI	8
BURST PRESSURE		-	10	-	PSI	
MECHANICAL VIBRATION		-	-	10	G	9
MECHANICAL SHOCK		-	-	50	G	10
HUMIDITY		-	-	95%	RH	11
OPERATING TEMPERATURE RANGE		-40	-	100	C	
STORAGE TEMPERATURE RANGE		-50	-	125	C	
MEDIA	CLEAN AIR OR INERT GAS					
WEIGHT	5.5 GRAMS					
HOUSING MATERIALS	NYLON					

PIN NO	FUNCTION
1	Vin
2	GROUND
3	Vout

PRESSURE RANGES
001PD
005WD
010WD
015WD

(DCN 10135A)



APPLICATION SCHEMATIC

ORDERING INFORMATION

SA-□□□-□□□□□

OUTPUT CONFIGURATION	TYPE
110 = 0.50 TO 4.5V	PD = PRESSURE DIFF
111 = 0.25 TO 4.0V	WD = WATER DIFF

PRESSURE RANGE
001PD = 1 PSI
005WD = 5" H ₂ O
010WD = 10" H ₂ O
015WD = 15" H ₂ O