

CATALOG LISTING	TYPE	OPERATING PRESSURE RANGE
142PC30A	A	0 TO 30 PSIA
142PC30D	D	0 TO 30 PSID
142PC30G	G	0 TO 30 PSIG

M 140PC30 SERIES
CHART 1

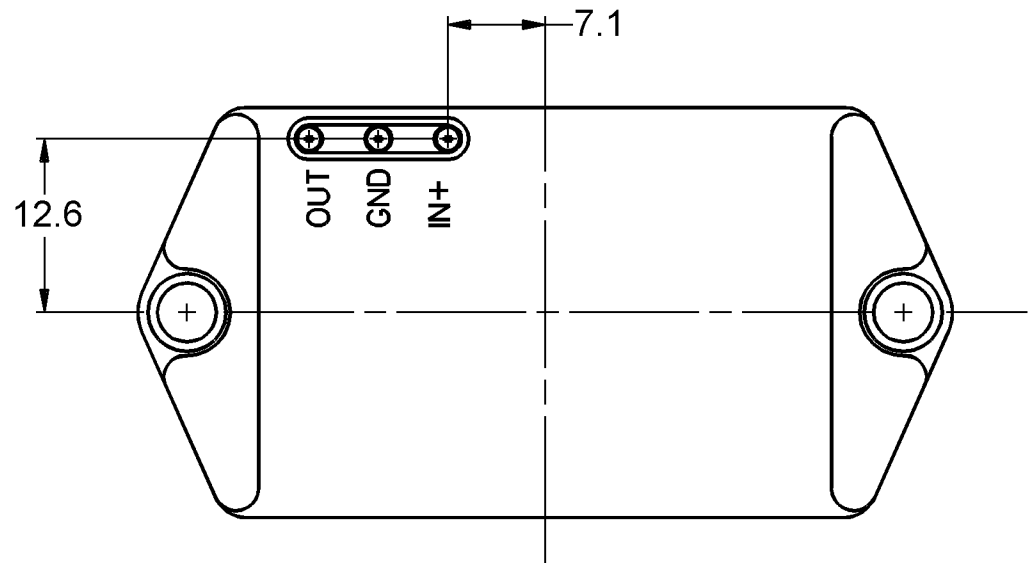
GENERAL OPERATING CHARACTERISTICS

PRESSURE RANGE	0 TO 1550 mmHg (0 TO 30 PSI)
OVERPRESSURE	3100 mmHg (60 PSI)
TEMPERATURE RANGES	
STORAGE	-55°C TO +125°C
OPERATING	-40°C TO +85°C
COMPENSATED	-18°C TO +63°C
SUPPLY VOLTAGE	7 TO 16 VDC
SUPPLY CURRENT	20mA MAX WITH 10K LOAD
OUTPUT VOLTAGE	PROPORTIONAL TO SUPPLY VOLTAGE OVER ABOVE RECOMMENDED RANGE
SHORT CIRCUIT LIMIT	MAY BE SHORTED INDEFINITELY
OUTPUT RIPPLE	NONE
GROUND REFERENCE	SUPPLY AND OUTPUT ARE COMMON

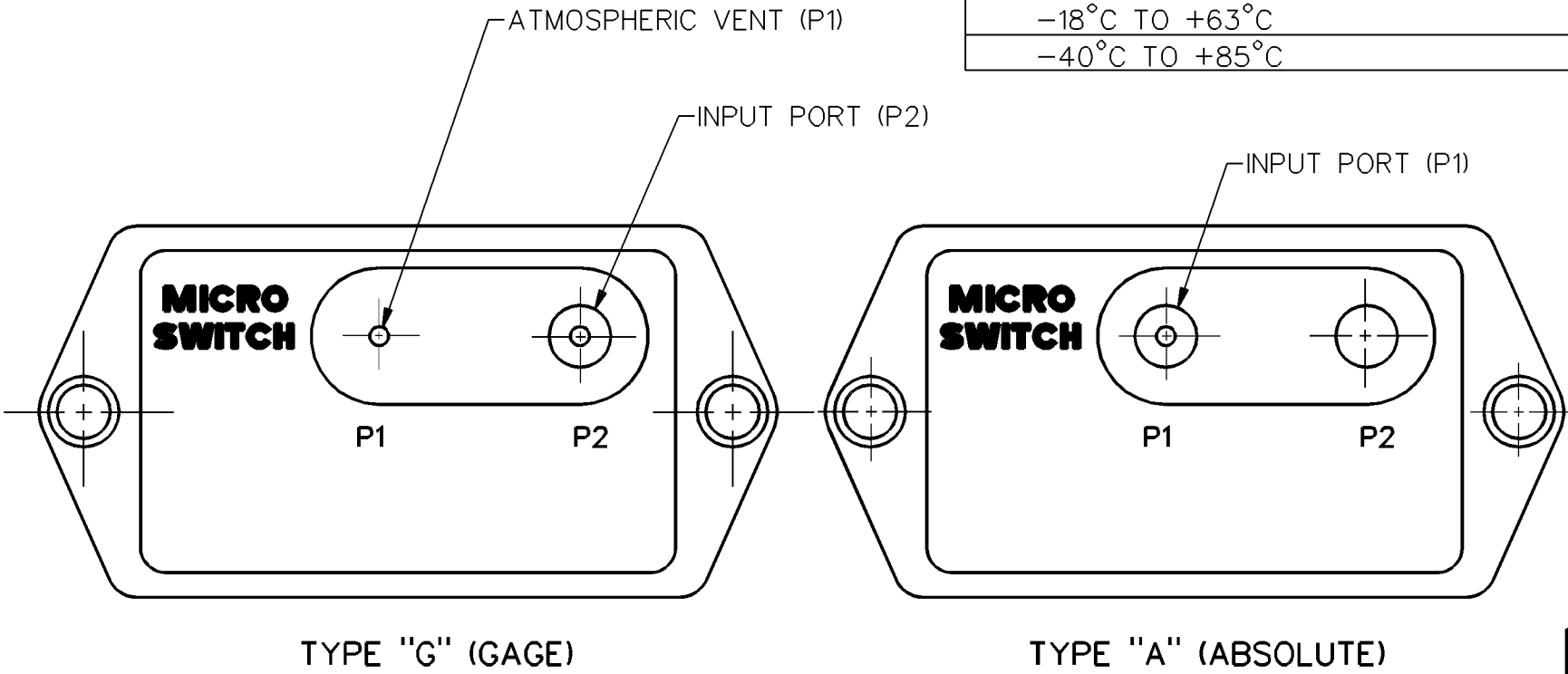
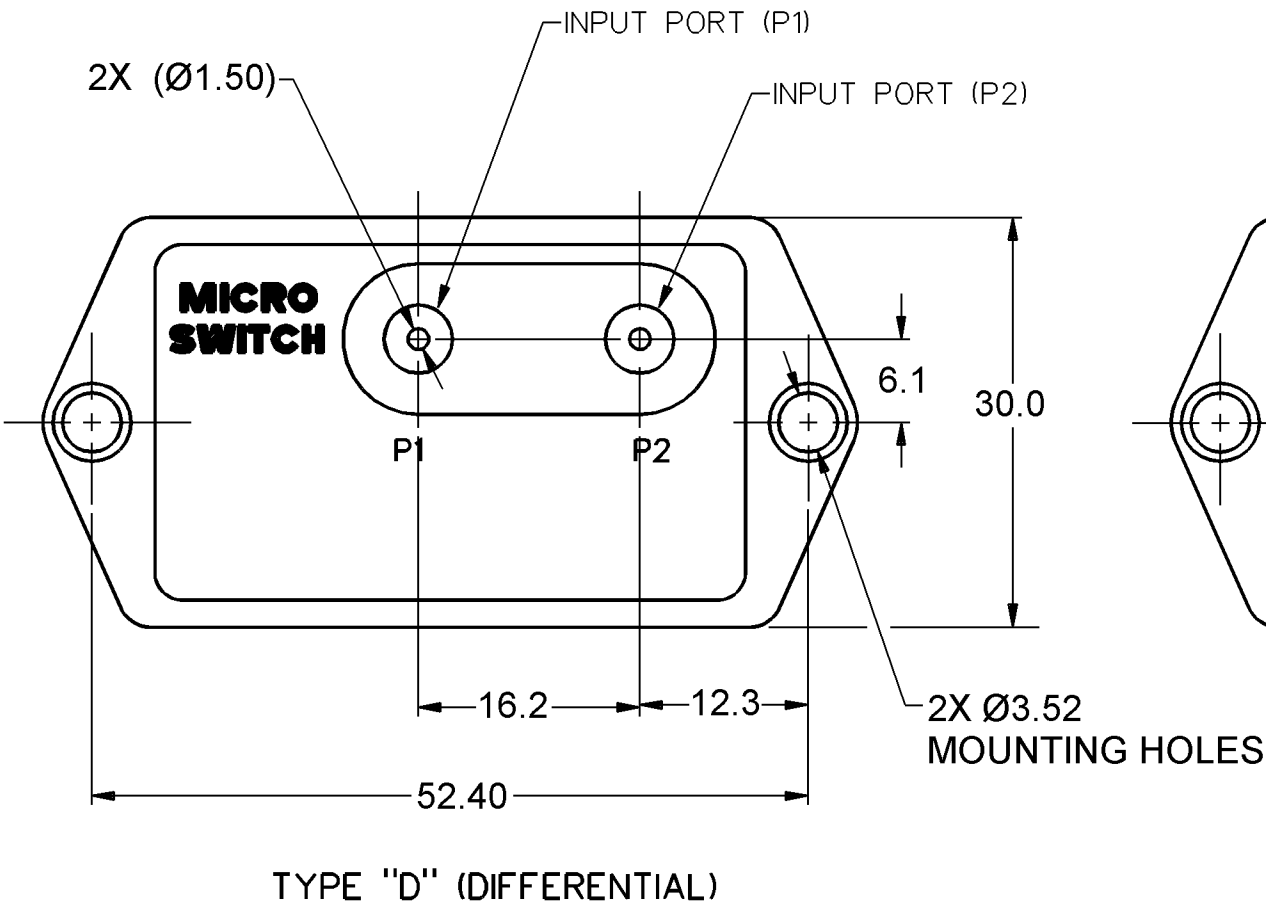
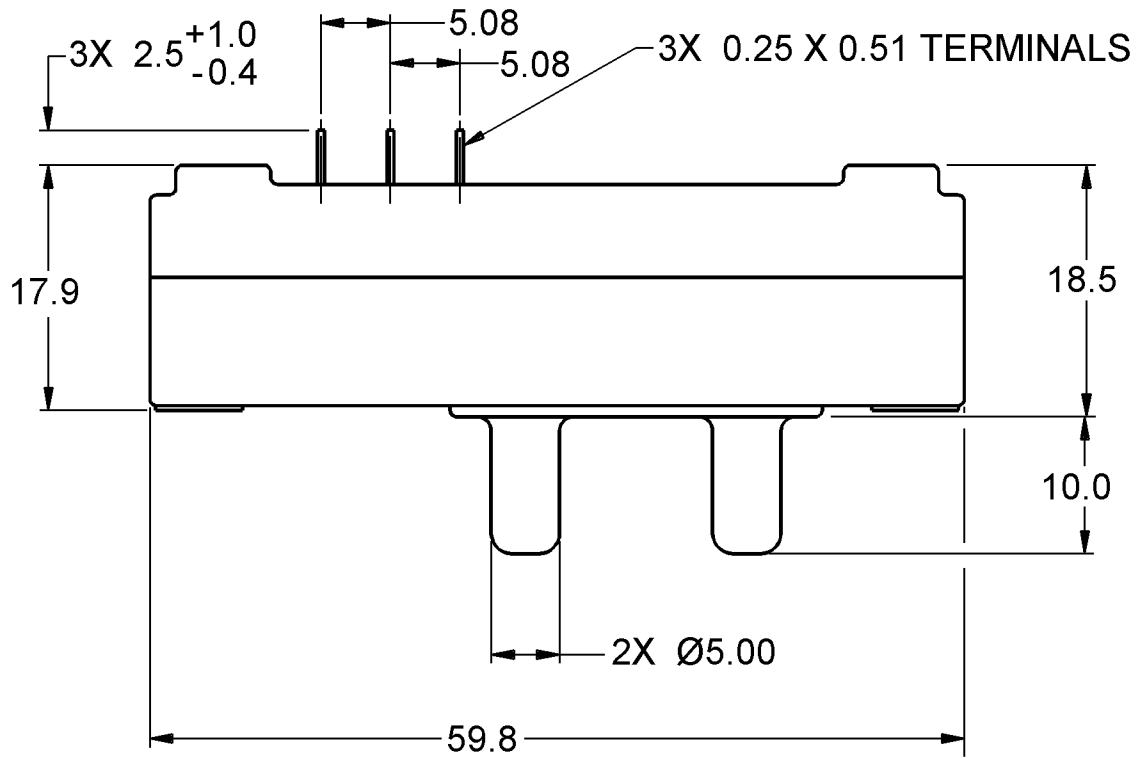
ELECTRICAL PERFORMANCE AT 25°C AND
8.00±.01 VDC SUPPLY

OUTPUT VOLTAGE	
142PC30D OR G	
NULL (0 PSIG)	1.000±.050 VDC
FULL SCALE (30 PSIG)	6.000VDC TYP P2 > P1
SPAN	5.000±.050 VDC
SENSITIVITY	166.7 mV/PSI TYP
LINEARITY (B.F.S.L.)	.75% SPAN MAX P1 > P2 1.50% SPAN MAX P2 > P1
HYSTERESIS & REPEATABILITY	.15% SPAN TYP
TEMPERATURE ERROR	
+5°C TO +45°C	.50% SPAN TYP
-18°C TO +63°C	1.00% SPAN MAX
-40°C TO +85°C	2.00% SPAN TYP
142PC30A	
NULL (0 PSIA)	1.000 VDC TYP
REFERENCE (2 PSIA)	1.333±.050 VDC
FULL SCALE (30 PSIA)	6.000 VDC TYP P1 > P2
SPAN (2 TO 30 PSIA)	4.667±.050 VDC
SENSITIVITY	166.7 mV/PSI TYP
LINEARITY (B.F.S.L.)	.80% SPAN MAX
HYSTERESIS & REPEATABILITY	.16% SPAN TYP
TEMPERATURE ERROR	
+5°C TO +45°C	.54% SPAN TYP
-18°C TO +63°C	1.07% SPAN MAX
-40°C TO +85°C	2.14% SPAN TYP

METRIC	INCH
0.4	.016
0.25	.010
0.51	.020
1.0	.039
1.5	.04
2.5	.099
3.52	.139
5.00	.197
5.08	.200
6.1	.240
7.1	.280
10.0	.39
12.3	.484
12.6	.496
16.2	.64
17.9	.70
18.5	.73
30.0	1.18
52.40	2.06
59.8	2.35



- NOTES:
1 - INPUT MEDIA:
P1 - DRY GASES ONLY: CONNECTION SIDE OF SENSOR
P2 - LIMITED ONLY TO THOSE MEDIA THAT WILL NOT ATTACK POLYESTER, SILICON OR SILICONE BASED ADHESIVE
2 - TERMINALS ARE PLATED FOR SOLDERING
3 - LIMIT SOLDERING TO 315°C MAX FOR 10 SECONDS MAX
4 - UNITS ARE OF PLASTIC CONSTRUCTION



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MICRO SWITCH a Honeywell Division FED. MFG. CODE 91929	PRESSURE TRANSDUCER	CATALOG LISTING
		140PC30 SERIES
		CHART 1

THIRD ANGLE PROJECTION		
SCALE 2 : 1		
DO NOT SCALE PRINT		
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE		
NO PLACE	(0)	± 1 mm
ONE PLACE	(0.0)	± 0.4 mm
TWO PLACE	(0.00)	± 0.15 mm
ANGLES		±