

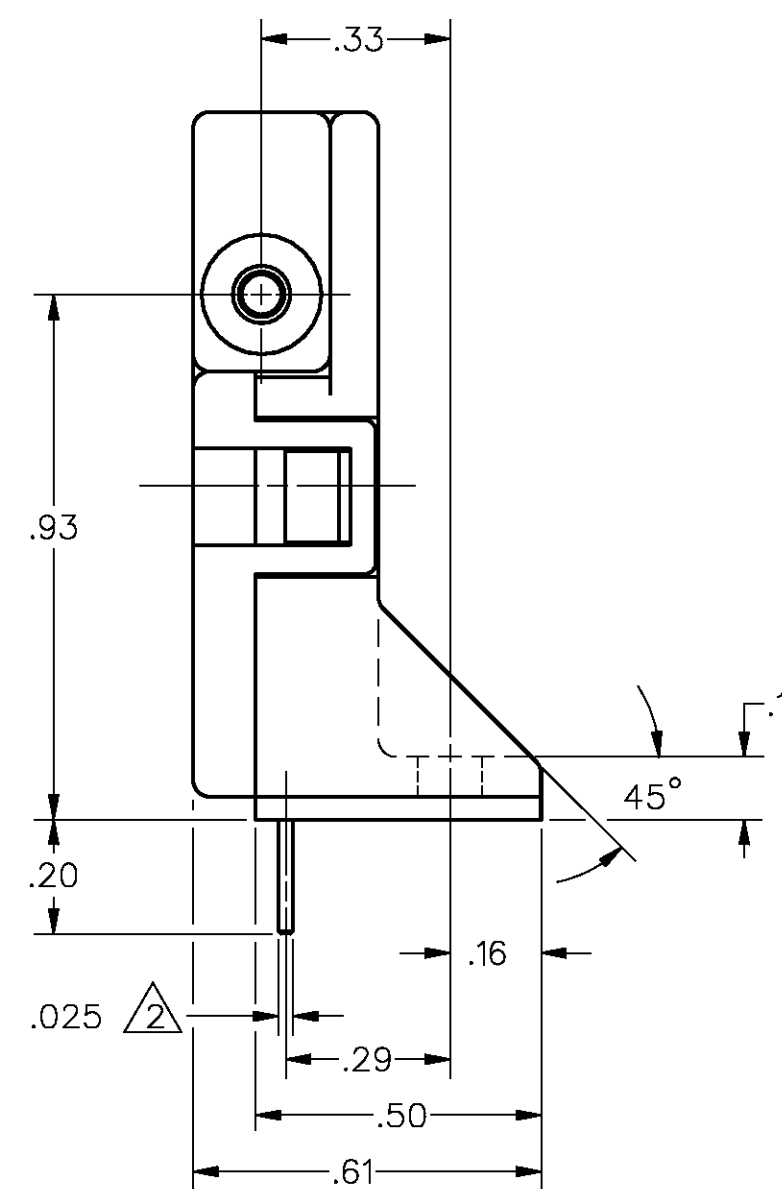
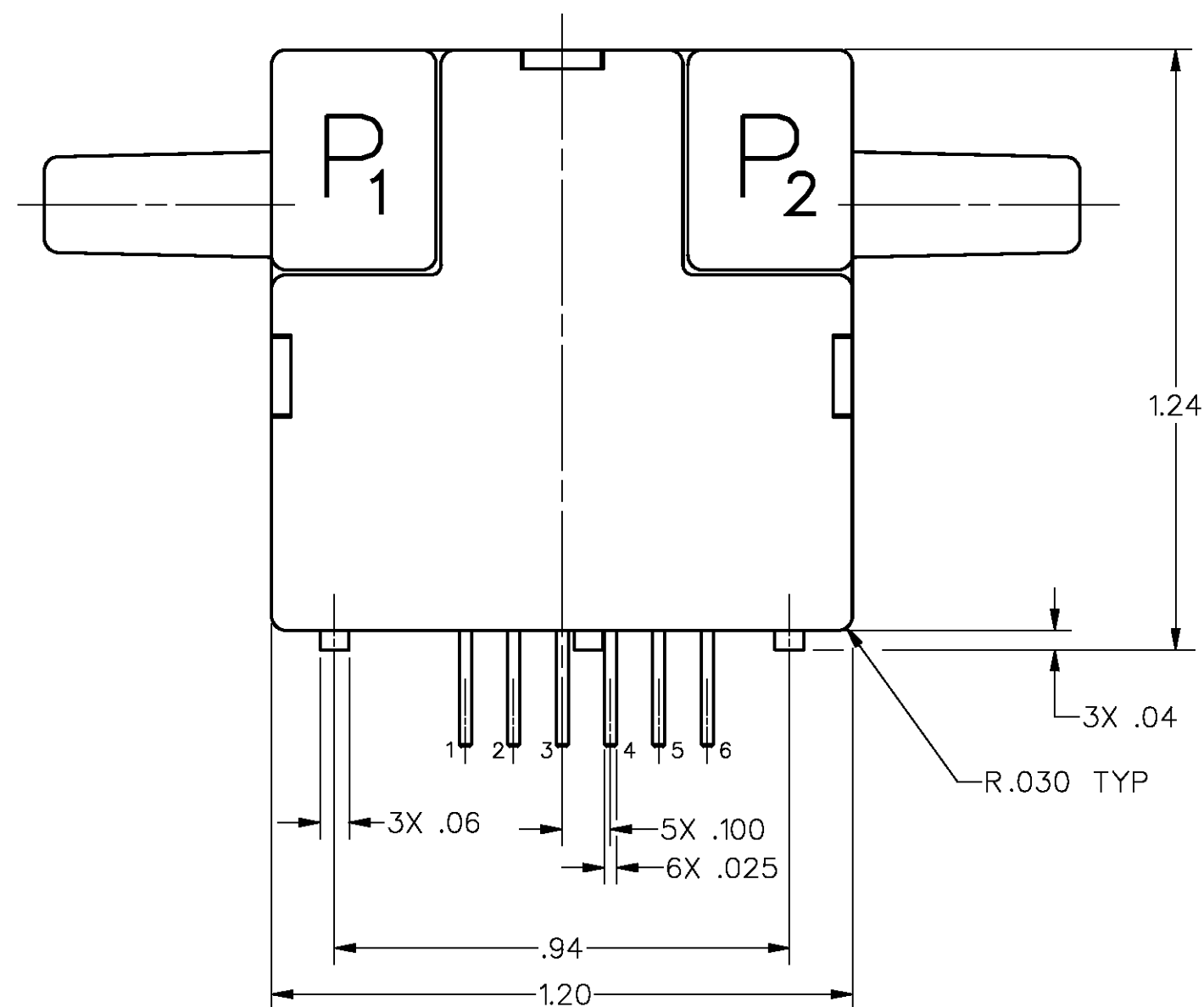
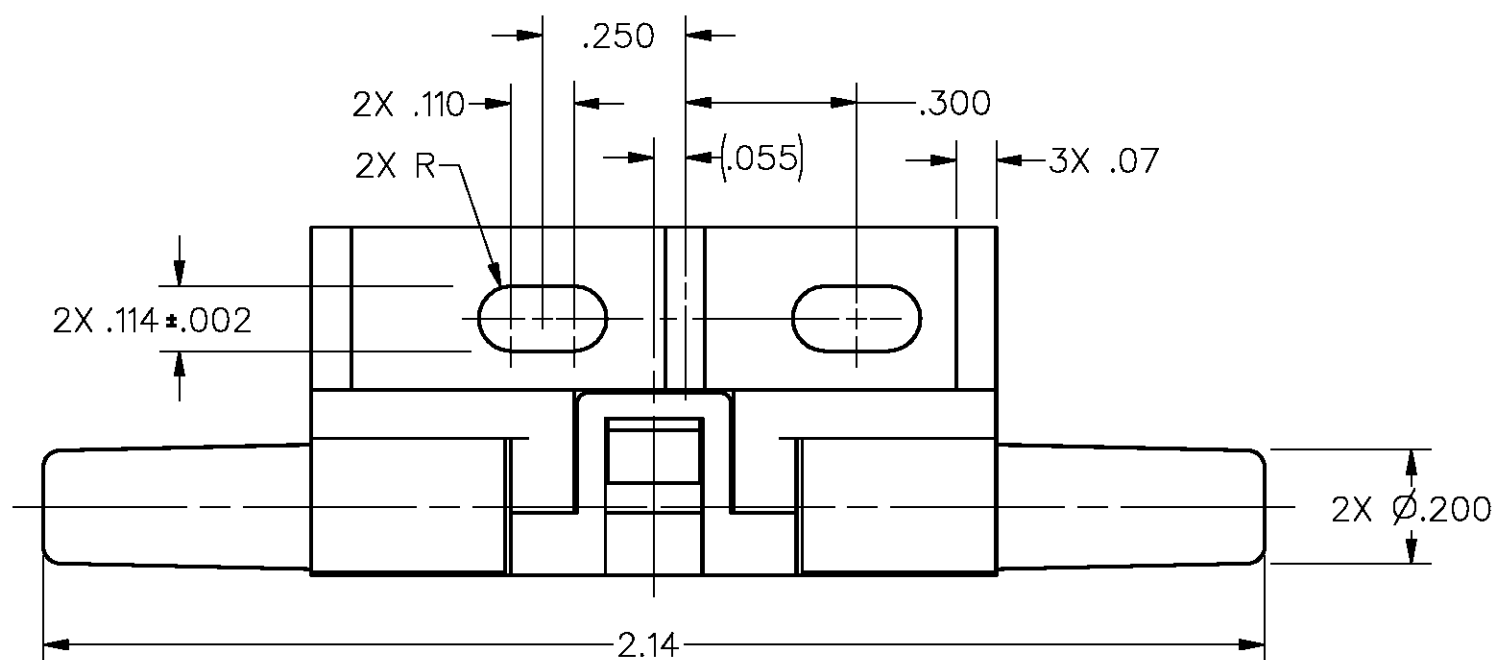
AWM1300V  
FLOW SPECIFICATIONS

FLOW (sccm)	NOMINAL (mV)	TOL. (%mV)
1000	57.0	7.0
800	53.0	6.0
650	50.0	5.0
400	40.0	6.0
200	27.0	5.0
0	0.0	1.5
-200	-28.9	15.0
-400	-41.2	26.0
-650	-48.2	29.5

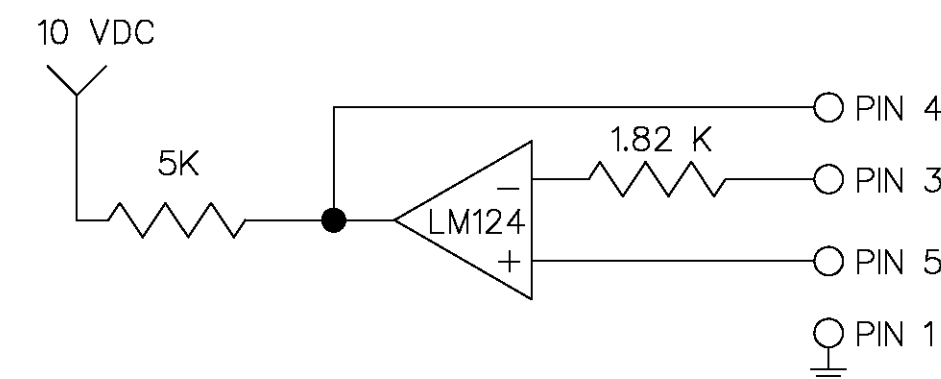
SPECIFICATIONS	AWM1300V
RECOMMENDED EXCITATION (8VDC MIN)	10.000±.010VDC (15.000 VDC MAX)
POWER CONSUMPTION	40mW MAX
OUTPUT VOLTAGE TRIM POINT	50mV @ 650 sccm
NULL VOLTAGE	0.0±1.5mV
NULL VOLTAGE SHIFT (-25°C TO +85°C)	±1.5mV MAX
OUTPUT VOLTAGE SHIFT (+25°C TO -25°C)	±4% F.S.O. MAX
OUTPUT VOLTAGE SHIFT (+25°C TO +85°C)	±4% F.S.O. MAX
REPEATABILITY & HYSTERESIS	±1.0% F.S.O. MAX
RESPONSE TIME	3.0 msec MAX
OPERATING TEMPERATURE RANGE	-25°C TO +85°C
STORAGE TEMPERATURE RANGE	-40°C TO +90°C
TERMINATION	.025 SQ. IN.
WEIGHT	10.8 GRAMS
SHOCK RATING	100 G PEAK
OVERPRESSURE	25 PSI MAX
SENSOR RESISTANCE	5 K-OHMS TYP
SENSOR CURRENT (PIN 2-PIN 1, PIN 6-PIN 1)	0.6 mA MAX

NOTES

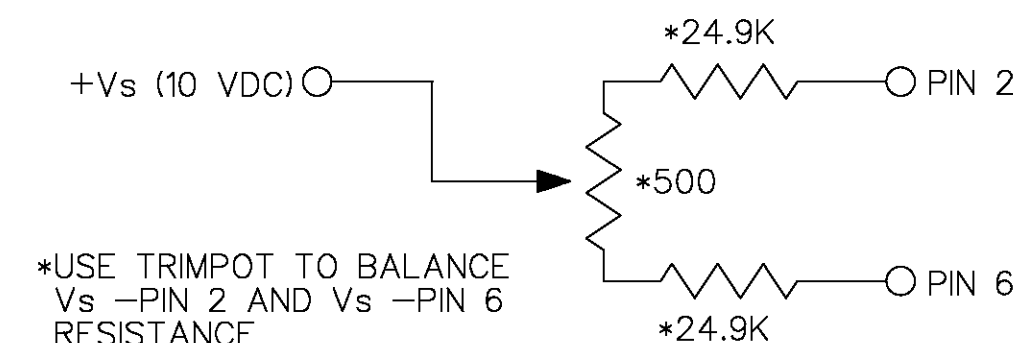
- 1 RESPONSE TIME IS TYPICALLY 1 msec FROM 10%-90%
- 2 OUTPUT VOLTAGE IS RATIO METRIC TO SUPPLY VOLTAGE
- 3 REPEATABILITY & HYSTERESIS TOLERANCES REFLECT INHERENT INACCURACIES OF THE MEASUREMENT EQUIPMENT
- 4 TEMPERATURE SHIFTS IN THE MASS FLOW DEVICES ARE DUE TO THE CHANGE OF THE SECOND ORDER TCR COEFFICIENT OVER TEMPERATURE
- 5 - POSITIVE FLOW DIRECTION IS DEFINED AS PROCEEDING FROM P1 TO P2 AND RESULTS IN POSITIVE OUTPUT (PIN 6 > PIN 2). NEGATIVE FLOW DIRECTION IS DEFINED CONVERSELY AND RESULTS IN NEGATIVE OUTPUT (PIN 6 < PIN 2)



HEATER CONTROL CIRCUIT



SENSING BRIDGE SUPPLY CIRCUIT



DRAWING NUMBER: AWM1300V  
 ISSUE: 4  
 PAGE: 1 OF 1  
 RELEASE NO.: PR-21110  
 REPLACES: X96708-AW  
 REVISIONS:  
 A CO B3279  
 G J W  
 P SEP 96  
 B C083694  
 28 APR 97  
 C C094378  
 TSM  
 23 MAR 99  
 CHECK  
 J A F 27 MAY 94  
 CHECK  
 J J O 1 JUN 94  
 CHECK  
 FORMTEK  
 DRAWN

MASTER REDUCED  
ANSI Y14.5M-1982 APPLIES

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<b>MICRO SWITCH</b> a Honeywell Division	<b>MASS AIRFLOW SENSOR</b>	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: ONE PLACE (.0) ±.030 TWO PLACES (.00) ±.015 THREE PLACES (.000) ±.005 ANGLES ±
FED. MFG. CODE 91929		WEIGHT

THIRD ANGLE PROJECTION  
  
 SCALE 3 : 1  
 DO NOT SCALE PRINT  
 UNLESS OTHERWISE SPECIFIED TOLERANCES ARE  
 ONE PLACE (.0) ±.030  
 TWO PLACES (.00) ±.015  
 THREE PLACES (.000) ±.005  
 ANGLES ±  
 WEIGHT