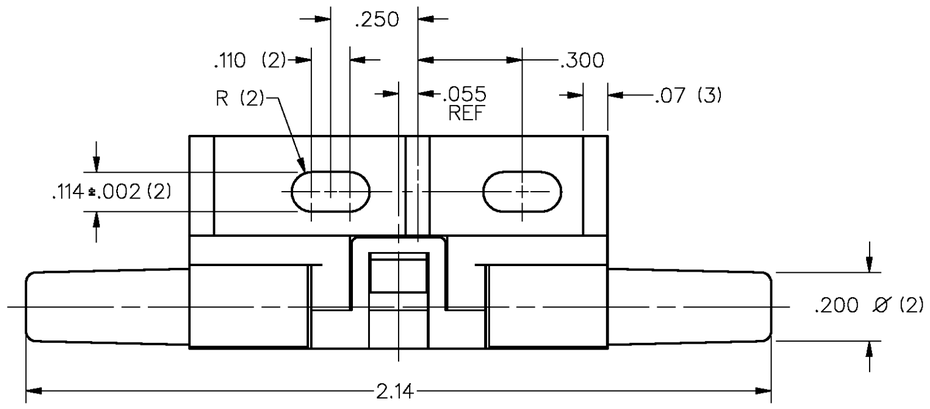
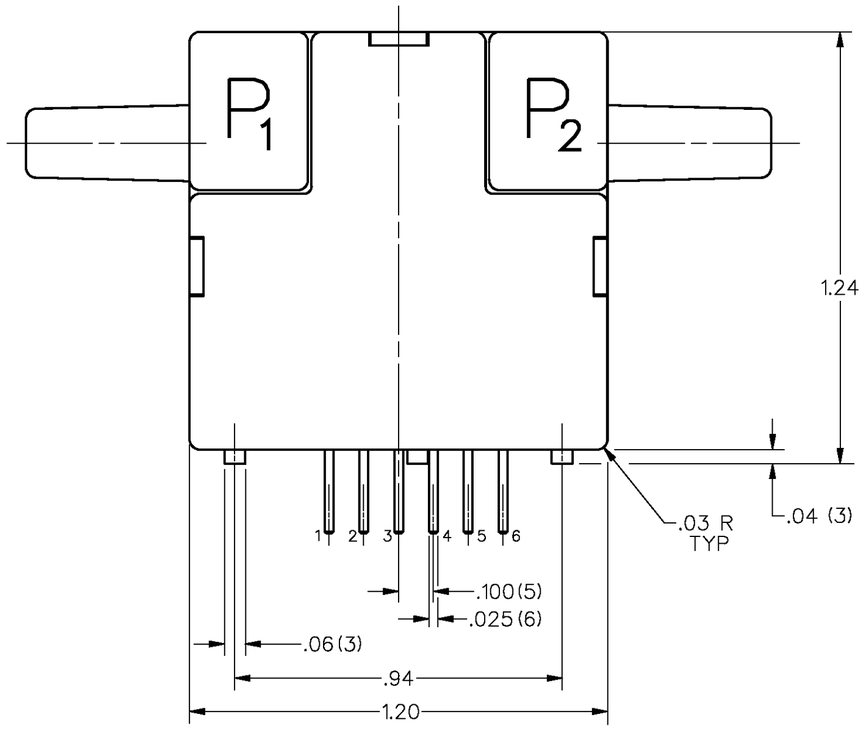


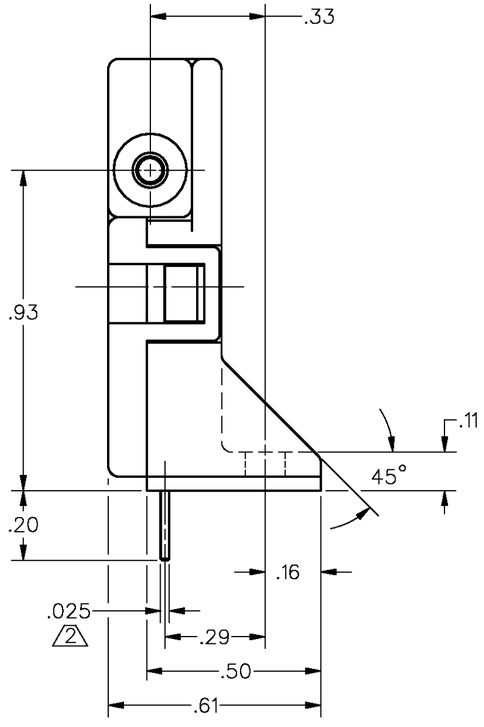
SPECIFICATIONS:	AWM1100V
RECOMMENDED EXCITATION (8 VDC MIN) /2\	10.000±.01VDC (15.000 VDC MAX)
POWER CONSUMPTION	30mW
OUTPUT VOLTAGE TRIM POINT	30mW @ 100 sccm
NULL VOLTAGE	0.0±.7mW
NULL VOLTAGE SHIFT (−25°C TO +85°C)	±1.5mW (MAX)
OUTPUT VOLTAGE SHIFT (+25°C TO −25°C) /4\ (+25°C TO +85°C) /4\	±4 %FSO (MAX) ±4 %FSO (MAX)
REPEATABILITY & HYSTERESIS /3\	±1 %FSO (MAX)
RESPONSE TIME /1\	3.0 msec (MAX)
OPERATING TEMPERATURE RANGE	−25°C TO +85°C
STORAGE TEMPERATURE RANGE	−40°C TO +90°C
TERMINATION	0.025 SQ. IN.
WEIGHT	10.8 GRAMS
SHOCK RATING	100 G PEAK
OVERPRESSURE	5 PSI (MAX)
SENSOR RESISTANCE	5 K−OHMS (TYP)
SENSOR CURRENT (PIN 2−PIN 1, PIN 6−PIN 1)	0.6 mA (MAX)

AWM1100V
FLOW SPECIFICATIONS:

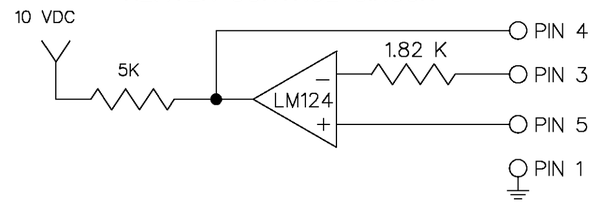
FLOW (Sccm)	NOMINAL (mV)	TOL. (±mV)
200	44.25	4.00
150	38.75	3.00
100	30.00	1.00
50	18.40	2.00
0	0.00	0.70
−50	−18.40	3.90
−100	−30.00	5.00
−150	−38.75	7.65
−200	−44.25	9.75

NOTES
/1\ RESPONSE TIME IS TYPICALLY 1 msec FROM 10%−90%
/2\ OUTPUT VOLTAGE IS RATIOMETRIC TO SUPPLY VOLTAGE
/3\ REPEATABILITY & HYSTERESIS TOLERANCES REFLECT INHERENT INACCURACIES OF THE MEASUREMENT EQUIPMENT
/4\ TEMPERATURE SHIFTS IN THE MASSFLOW 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)

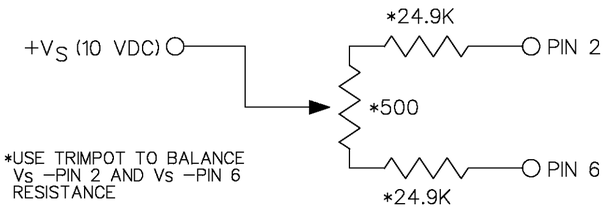




HEATER CONTROL CIRCUIT



SENSING BRIDGE SUPPLY CIRCUIT



*USE TRIMPOT TO BALANCE Vs −PIN 2 AND Vs −PIN 6 RESISTANCE

DRAWING NUMBER	AWM1100V		
ISSUE	3	RELEASE NO	PR−20260
REVISIONS			
A	C083694 J A K 30 APR 97		
B	C094375 TSM 23 MAR 99		
DRAWN	J A F 4 NOV 92	CHECK	K A G 4 NOV 92
FORMTEK		CHECK	

MASTER REDUCED

MICRO SWITCH a Honeywell Division
FED. MFG. CODE 91929

MASS AIRFLOW SENSOR

CATALOG LISTING
AWM1100V

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