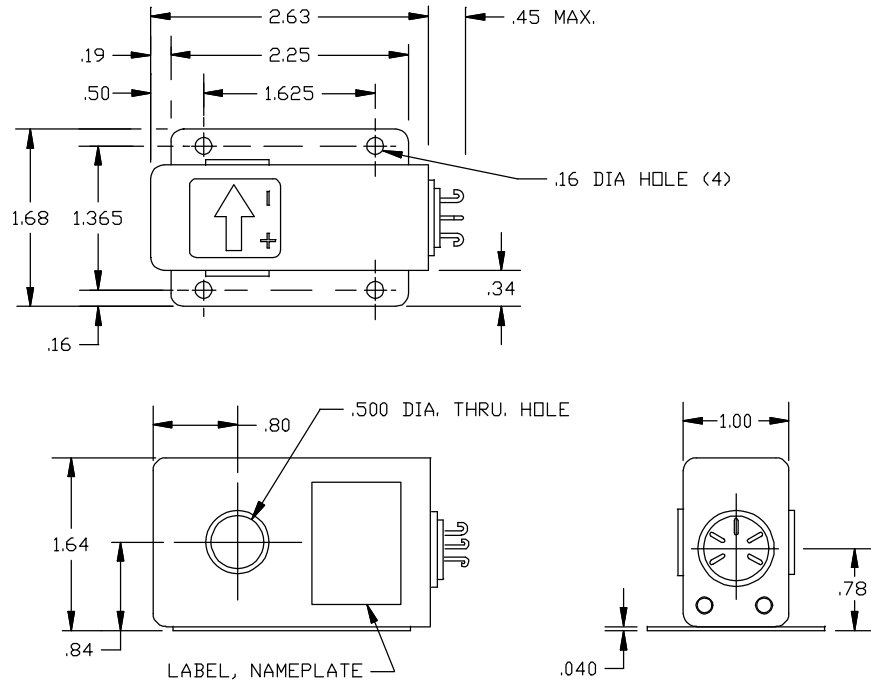


Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010

**DC CURRENT TRANSDUCER  
SERIES S728B**



AAC PART NUMBER	INPUT CURRENT RANGE	OUTPUT ACCURACY (SEE NOTE 1)			SUPPLY CURRENT DRAIN
		@25°C	0 to 70°C	-55to85°C	
S728B-50	0 to 50Adc	±0.5%	±0.8%	±1.5%	40mA
S728B-100	0 to 100Adc	±0.5%	±0.6%	±1.0%	40mA
S728B-150	0 to 150Adc	±0.5%	±0.6%	±1.0%	50mA
S728B-200	0 to 200Adc	±0.5%	±0.6%	±0.8%	50mA
S728B-250	0 to 250Adc	±0.5%	±0.6%	±0.8%	65mA
S728B-300	0 to 300Adc	±0.4%	±0.5%	±0.8%	80mA
S728B-400	0 to 400Adc	±0.3%	±0.4%	±0.6%	110mA

**INPUT CURRENT**

RANGE ..... See Table  
CURRENT OVERLOAD ..... 5000Adc Continuous (Nonlatching/Saturated Output)

**OUTPUT**

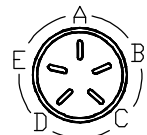
CURRENT SIGNAL ..... 0 to 5Vdc FS (Full Scale)  
ACCURACY ..... % FS See Table & Note 1  
LINEARITY ..... ±0.1% FS.  
BANDWIDTH ..... DC TO 350KHZ  
RESPONSE TIME ( 10 to 90%) ..... 1 u-sec.  
OUTPUT IMPEDANCE ..... 50 Ohms max.

**POWER SUPPLY**

SUPPLY VOLTAGE ..... 28Vdc ±4Vdc  
CURRENT DRAIN ..... See Table  
REVERSE POLARITY PROTECTION ... 100uA Current Drain Without Damage

**ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS**

OPERATING TEMPERATURE ..... -55 to +85°C  
STORAGE TEMPERATURE ..... -55 to +90°C  
OPERATING HUMIDITY ..... 0% to 95% RH  
MOISTURE RESISTANCE ..... Will meet Method 106 of MIL-STD-202 & Method 507.1, Proc. 1 of MIL-STD-810  
ALTITUDE ..... Operating sea level to 60,000 ft. Non-operating - sea level to 120,000 ft. (Method 105, Condition A of MIL-STD-202)  
SHOCK ..... Non-Operating - 50g, 11 m-sec half sine pulse (Method 213 Condition A of MIL-STD-202)  
RANDOM VIBRATION ..... Operating MIL-STD-810E Cat.5, Proc.1, WO=0.012G<sup>2</sup>/HZ, Duration 1 hr., Figure 514.4-8 Suggested Vibration Levels for High Performance Aircraft 12.5G-RMS Min.  
DIELECTRIC STRENGTH ..... 350V RMS Terminals A-D to E & Case  
INSULATION RESISTANCE ..... 100 M-Ohms Min.  
FINISH ..... Fuse Tin Plate  
ALTITUDE ..... Unit will perform as specified when mounted in any position  
WEIGHT ..... 0.57 lbs. max.



SOLDER HEADER

**TERMINAL IDENTIFICATION**

- A. SUPPLY VOLTAGE (+)
- B. SUPPLY VOLTAGE (RTN)
- C. OUTPUT SIGNAL (RTN)
- D. OUTPUT SIGNAL (+)
- E. CASE GROUND

**NOTE:** Specified accuracy includes the combined worst case effects of Zero Offset, Hysteresis, Supply Swings and Current Cable Positioning

<b>AAC</b>	<b>Drawing Number 700-S728B-952</b>	<b>Rev. A</b>
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