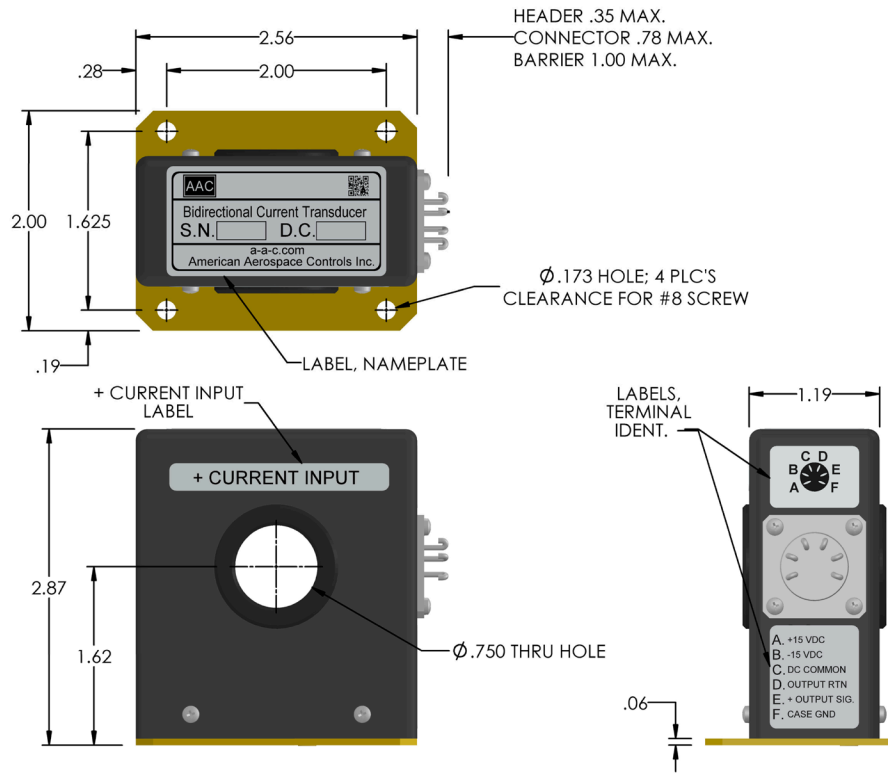


Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010

**BIDIRECTIONAL CURRENT TRANSDUCER  
SERIES S273**



PART NO.	INPUT CURRENT	ACCURACY	TEMPERATURE COEFFICIENT	CURRENT DRAIN
S273-25	0 to ±25A	1%	0.04%	45
S273-50	0 to ±50A	1%	0.03%	60
S273-100	0 to ±100A	0.5%	0.02%	60
S273-150	0 to ±150A	0.5%	0.02%	60
S273-200	0 to ±200A	0.5%	0.02%	70
S273-250	0 to ±250A	0.5%	0.02%	80
S273-300	0 to ±300A	0.5%	0.02%	90
S273-350	0 to ±350A	0.5%	0.02%	90

**INPUT**

CURRENT OVERLOAD..... ±5kAdc (Continuous)

**OUTPUT**

VOLTAGE SIGNAL..... 0 to ±5Vdc FS (Full Scale)  
 ACCURACY..... % FS See Table  
 di/dt ACCURATELY FOLLOWED ..... Better than 50A/u-sec.  
 DELAY TIME ..... Better than 1u-sec.  
 BANDWIDTH..... DC to 100KHz  
 IMPEDANCE ..... 10 ohms max.  
 LOAD ..... 5K ohms min.  
 TEMPERATURE COEFFICIENT ..... FS/°C max. See Table

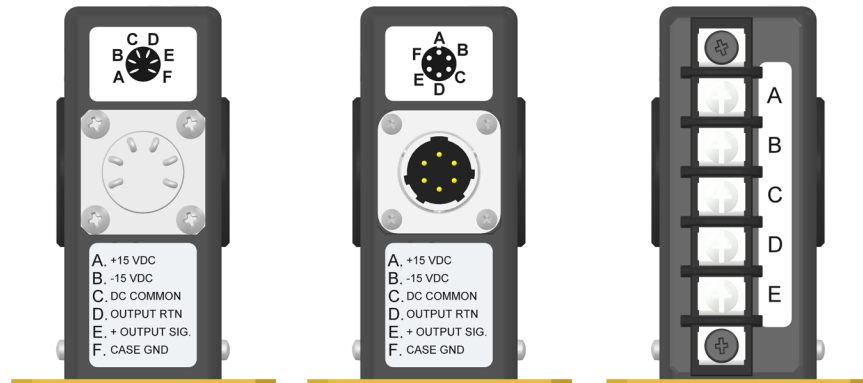
**POWER SUPPLY**

SUPPLY VOLTAGE ..... ±15Vdc ±1Vdc  
 CURRENT DRAIN ..... mAdc max. See Table

REVERSE POLARITY PROTECTION ..... 10µA max. current drain no damage.

**ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS**

OPERATING TEMPERATURE..... -55° to +85°C  
 STORAGE TEMPERATURE..... -55° to +85°C  
 OPERATING HUMIDITY..... 0% to 95% RH  
 MOISTURE RESISTANCE ..... Will meet Method 106 of MIL-STD-202 & Method 507.1, Procedure I of MIL-STD-810 Operating: Sea level to 60,000 ft. Non-operating: Sea level to 120,000 ft. (Method 105, Condition A of MIL-STD-202)  
 ALTITUDE ..... Non-operating: 50g, 11m-sec half sine pulse (Method 213, Condition A of MIL-STD-202)  
 SHOCK ..... Non-operating: 0.06 in. D.A., 10 to 55Hz (Method 201 of MIL-STD-202)  
 VIBRATION ..... 350V RMS dielectric withstanding voltage (Method 301 of MIL-STD-202)  
 DIELECTRIC STRENGTH ..... 10M-Ohms min. (Method 302, Condition A of MIL-STD-202)  
 INSULATION RESISTANCE..... Unit will perform as specified when mounted in any position.  
 ATTITUDE ..... 14 oz. max.  
 WEIGHT .....



**SOLDER HEADER**

**CONNECTOR OPTION**

**BARRIER OPTION**

ADD "-C" TO PART NO.  
 CONNECTOR PART NO.  
 PT02E-10-6P-023  
 PT02E-10-6P OR EQUIV.

MATING CONNECTOR  
 PT06A-10-6S-023 OR  
 PT06A-10-6S OR EQUIV

ADD "-B" TO PART NO.  
 TERMINAL "F"  
 NOT SUPPLIED.

**TERMINAL IDENTIFICATION**

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

**NOTE:** MOLDED TERMINAL BARRIER WITH 6-32 TERMINAL SCREWS 3/8 IN. CENTER TO CENTER SPACING. ACCEPTS WIRE SIZES UP TO 14 AWG AND WIRE LUGS UP TO 9/32 IN. WIDE.

<b>AAC</b>	<b>Drawing Number 700-S273-925</b>	<b>Rev. Q</b>
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