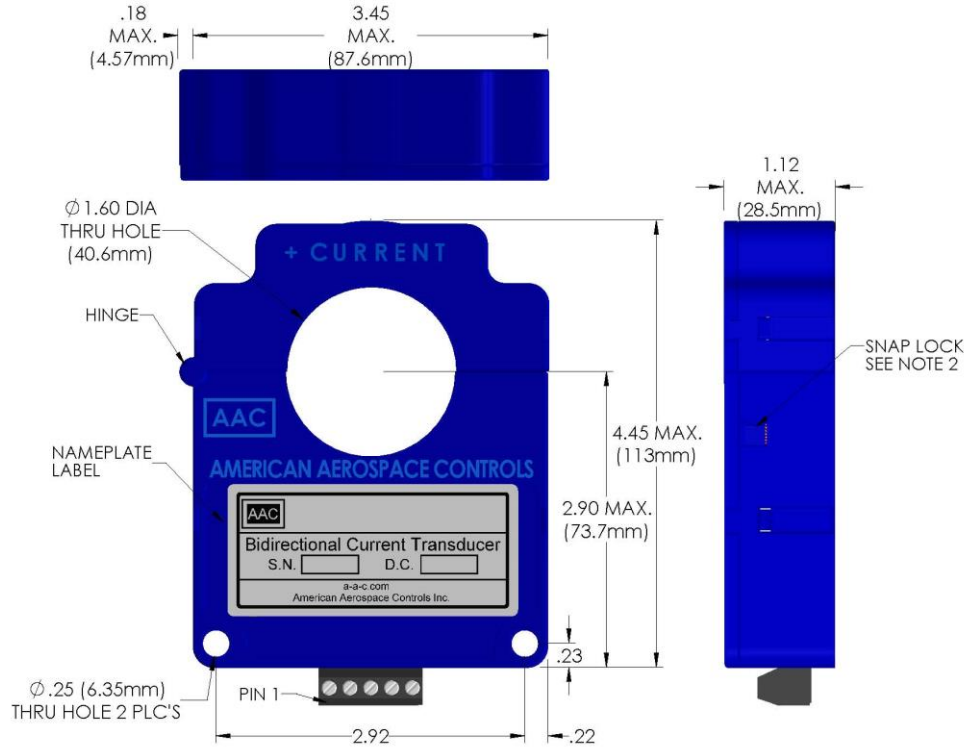


Dimensions in Inches, Tolerances: .XX ± .06 .XXX ± .030

**AC & DC (BIDIRECTIONAL) CURRENT TRANSDUCER**  
**PART NUMBER S1016-50**  
**DUAL OUTPUT / CLAMP ON**



**TERMINAL IDENTIFICATION**

- PIN 1 : SUPPLY VOLTAGE (+)
- PIN 2 : SUPPLY (RTN)
- PIN 3 : DC OUTPUT SIGNAL
- PIN 4 : AC OUTPUT SIGNAL
- PIN 5 : OUTPUT (RTN).

**INPUT**

CURRENT RANGE .....	0 to ±50Adc & 0 to 50Aac RMS.
OVERLOAD CONTINUOUS .....	±1000Adc ,100Aac RMS.
FREQUENCY RANGE .....	57 to 63Hz

**OUTPUT "A" DC (TERMINAL PIN 3)**

INPUT: Bidirectional ±50dc input current.	
OUTPUT: Proportional to the absolute value of the bi-polar input current without AC component.	
VOLTAGE SIGNAL .....	0 to +5Vdc.
ACCURACY .....	±1 %FS.
RESPONSE (10 to 90%) .....	1 sec.
OUTPUT IMPEDANCE .....	10 Ohms max.
OUTPUT LOAD .....	5K Ohms min.
OUTPUT RIPPLE .....	50mV RMS max.
TEMPERATURE COEFFICIENT .....	±0.04%FS/°C max.

**OUTPUT "B" AC (TERMINAL PIN 4)**

INPUT: AC 50A RMS input current.	
OUTPUT: Proportional RMS voltage without DC component.	
VOLTAGE SIGNAL .....	0 to +5Vdc
ACCURACY .....	±1 %FS.
RESPONSE (10 to 90%) .....	500m sec.
OUTPUT IMPEDANCE .....	10 Ohms max.
OUTPUT LOAD .....	5K Ohms min.
OUTPUT RIPPLE .....	50mV RMS max.
TEMPERATURE COEFFICIENT .....	±0.04%FS/°C max.

**POWER SUPPLY**

SUPPLY VOLTAGE .....	+18Vdc to 28Vdc.
CURRENT DRAIN .....	45mA max.
TRANSIENT PROTECTION .....	±40V (T<5mS)

**ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS**

OPERATING TEMPERATURE RANGE .....	-40° to +85°C
STORAGE TEMPERATURE RANGE .....	-45° to +85°C
ISOLATION .....	Input to output 2KV rms 60Hz/1min.
INSULATION RESISTANCE .....	500 M-Ohms @ 500Vdc
CASE MATERIAL .....	Molded Plastic meets UL flammability Rating 94V-O
WEIGHT .....	14 oz. Max.
FINISH .....	Blue Textured Pantone No. 294C

**NOTE 1:** Specified accuracy includes the combined worst case effects of Zero Offset, Hysteresis, Supply Swings and Current Cable Positioning.

**2:** Insert tool and press to release.  
 (Recommended Tool : Screwdriver, 3/16 standard tipped)

<b>AAC</b>	Drawing Number <b>S1016</b>	Rev. <b>G</b>
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