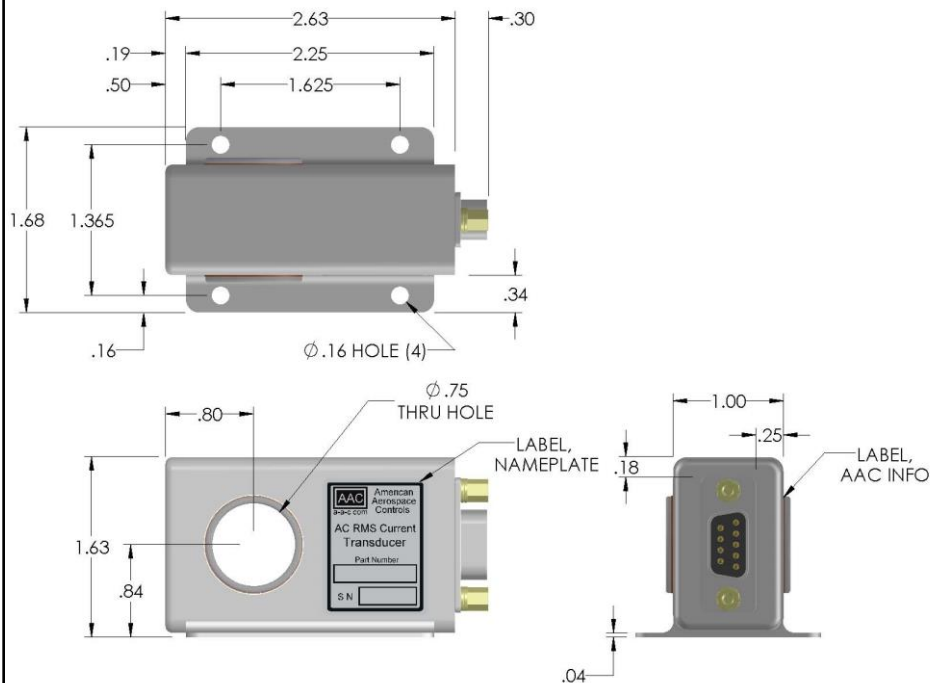
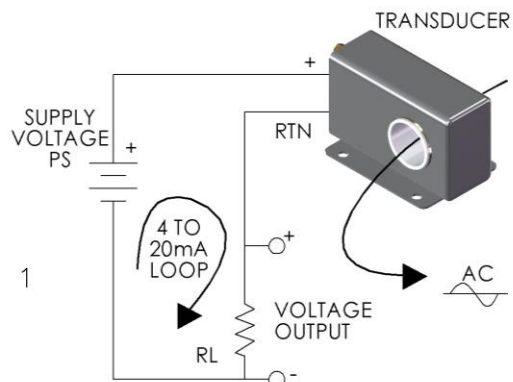


Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010



MATING CONNECTOR  
P/N: SPC15411



**TERMINAL IDENTIFICATION**

1. SUPPLY (+)
2. SUPPLY (RTN)
3. SPARE
- 4-9 SPARE

**AC RMS CURRENT TRANSDUCER  
SERIES S970  
4 to 20mA 2 WIRE LOOP POWER**

PART NUMBER	CURRENT RANGE	PART NUMBER	CURRENT RANGE
S970-2-D	0 to 2	S970-40-D	0 to 40
S970-5-D	0 to 5	S970-50-D	0 to 50
S970-10-D	0 to 10	S970-75-D	0 to 75
S970-15-D	0 to 15	S970-100-D	0 to 100
S970-20-D	0 to 20	S970-150-D	0 to 150
S970-25-D	0 to 25	S970-200-D	0 to 200
S970-30-D	0 to 30	S970-250-D	0 to 250

**INPUT**

RANGE	Aac rms (see table)
OVERLOAD	500Aac
FREQUENCY RANGE	360 to 460Hz
CREST FACTORS	Up to 4

**OUTPUT**

CURRENT SIGNAL	4 to 20mAac FS
ACCURACY (Over the Temperature Range)	±0.25% FS max. (± 50uA) note 1
RIPPLE	.2% max. (40uAac)
RESPONSE (10 to 90%)	300m-sec.
LOAD RESISTANCE (RL)	250 Ohms Nominal
LOAD RESISTANCE RANGE	0 to 300 Ohms
CURRENT SIGNAL @ OVERLOAD	23mAac typ.
OUTPUT PROTECTION	Reverse Polarity Protection

**POWER SUPPLY**

SUPPLY VOLTAGE	+15Vdc
CURRENT DRAIN	4 to 23mAac
SUPPLY VOLTAGE RANGE	+12 TO 32Vdc

**ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS**

OPERATING TEMPERATURE RANGE	-40° to +85°C
STORAGE TEMPERATURE RANGE	-55° to +125°C
CONDUCTED SUSCEPTIBILITY (Note 2)	DO-160E Section 20 (1.5mA @ 10KHz to 75mA @ 500KHz to 400MHz)
HUMIDITY (Operating)	0% to 95%RH
MOISTURE RESISTANCE	MIL-STD-202 Method 106
RANDOM VIBRATION (Operating)	MIL-STD-810F, Proc.1, Cat.12, WO=.095G <sup>2</sup> /Hz, Time1 hr, Fig. 514.5C-8 Overall level 12.G- RMS
SHOCK	50g 11m-sec. half sine pulse
ISOLATION	Input to output 5KV rms 60Hz/1min.
INSULATION RESISTANCE	500 M-Ohms @ 100Vdc
CASE MATERIAL	Brass
FINISH	Fuse Tin Plate Per ASTM-B-545
WEIGHT	10 oz. Max.

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

Note 2: Requires bonding/grounding for conductive susceptibility compliance. The bottom surface of the mounting plate is provided with conductive finish Per ASTM-B-545. (3% min. to 12% max. lead allow)

**AAC**

Drawing Number  
**S970-1070**

Rev.  
**E**