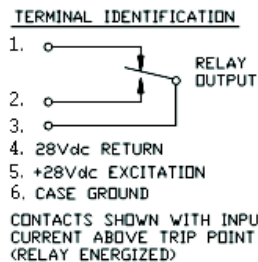
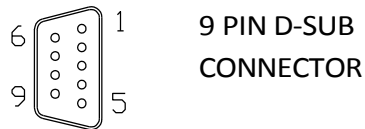
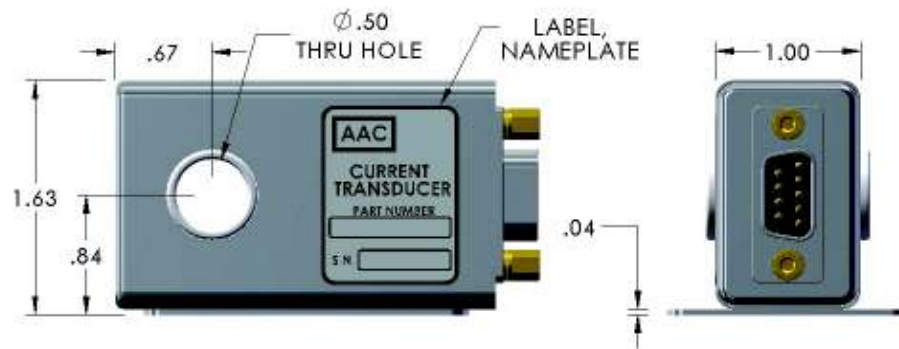
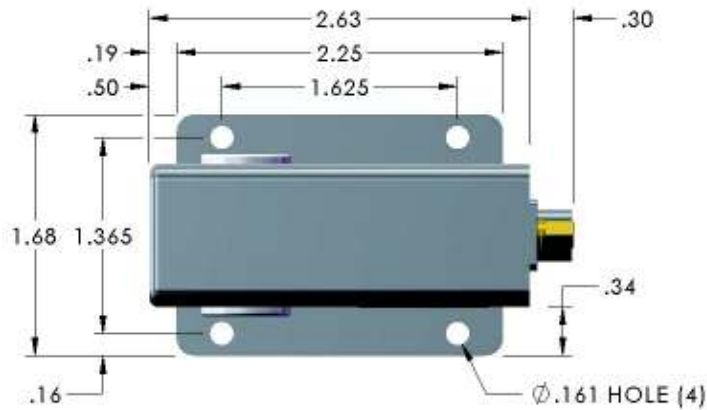


Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010

**AC CURRENT LEVEL DETECTOR
PART NUMBER S979-850**



INPUT

RANGE 0 to 75Aac
 FREQUENCY RANGE 360Hz to 650Hz
 OVERLOAD CURRENT CONTINUOUS 100Aac
 OVERLOAD CURRENT SURGE 500Aac for 6 cycles.

OUTPUT RELAY

RELAY CONTACT (SPST) Energized at & above set point
 CONTACT RATING 1 Amp Resistive, @ 28Vdc. 100mA @28V Lamp
 200mA Inductive @28Vdc (320mH)
 250mA @ 115Vac 60 Hz to 400Hz
 TRIP POINT (AS CURRENT DECREASES) 0.5Aac ±0.015Aac
 TRIP POINT REPEATABILITY ±.01Aac
 RESET Automatic when input current rises 0.1Aac
 ±0.02Aac above trip point

RESPONSE TIME 100 m-sec max.
 OUTPUT ISOLATION 350V RMS @ sea level

POWER SUPPLY

SUPPLY VOLTAGE 28Vdc, Nominal
 SUPPLY VOLTAGE RANGE 20.5Vdc to 32.2Vdc max
 CURRENT DRAIN 20mA max.
 REVERSE POLARITY PROTECTION 100µA max. current drain without damage

ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS

OPERATING & STORAGE TEMP RANGE -55°C to +85°C
 ELECTRIC STRENGTH 350V RMS MIL-STD-202 Method 301
 MOUNTING Rigid in any position
 INSULATION RESISTANCE (Test A) 200 M-Ohms min. MIL-STD-202 Method 302
 Test Condition A
 WEIGHT 9 oz. Max.
 FINISH Fuse tin plate

DO-160E ENVIRONMENT

TEMPERATURE & ALTITUDE
 TEMPERATURE VARIATION
 HUMIDITY
 SHOCK & CRASH SAFETY
 EXPLOSION PROOFNESS
 WATER PROOFNESS
 SAND & DUST
 FUNGUS RESISTANCE
 SALT FOG
 ICING
 MAGNETIC EFFECT
 POWER INPUT
 FIRE FLAMMABILITY
 VOLTAGE SPIKES
 AUDIO FREQUENCY CONDUCTED
 INDUCED SIGNAL SUSCEPTIBILITY
 RF SUSCEPTIBILITY
 EMISSION OF RADIO FREQUENCY
 LIGHTNING INDUCED TRANSIENT
 ELECTROSTATIC DISCHARGE (ESD)

SECTION

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CATEGORY

D2
 A
 B
 E
 H
 Y
 D
 F
 SM
 A
 Z
 B
 C
 A
 B
 ZC
 RR
 M
 A3G33
 A

Crash Safety (Sustained) Test Performed IAW RTCA DO-160E, Section 7 at below levels					
Test Levels	FWD	AFT	LAT	UP	DOWN
Sustained	27.21g	N/A	6.8g	4.54g	N/A

**Operational Shock & Crash Safety (Impulse) Test
Performed IAW RTCA DO-160E, Section 7, Category E**

Constant Acceleration Test Performed IAW Mil-Std-810(F) Method 513 at below levels					
Test Levels	FWD	AFT	LAT	UP	DOWN
Operational	1.7g	2.9g	5.75g	4.25g	11.5g
Structural	2.55g	4.35g	8.65g	6.37g	17.25g

**Vibration Performed I.A.W.
MIL-STD-810G, Method 514.6
Figure 514.6 D2, Procedure I**

AAC	Drawing Number	Rev.
	700-S979-850	B1