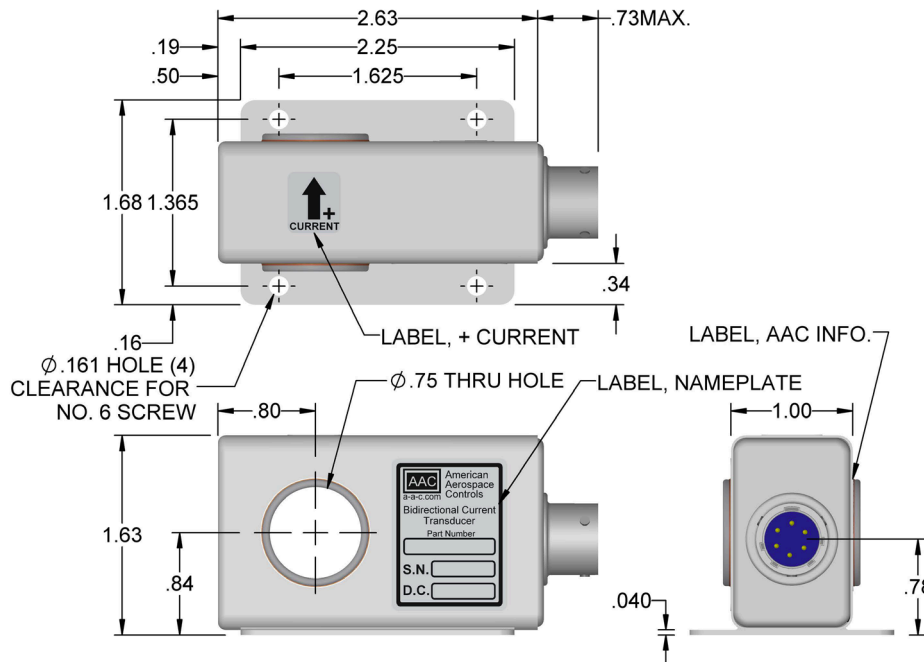


Dimensions in Inches, Tolerances: .XX ± .03 .XXX ± .010

**BIDIRECTIONAL CURRENT TRANSDUCER
SERIES S1177**



PART NUMBER	CURRENT RANGE	ACCURACY	TEMPERATURE COEFFICIENT
S1177-50	0 to ±50	±1%	±0.02%
S1177-100	0 to ±100	±0.5%	±0.01%
S1177-150	0 to ±150	±0.5%	±0.01%
S1177-200	0 to ±200	±0.5%	±0.01%
S1177-250	0 to ±250	±0.5%	±0.01%
S1177-300	0 to ±300	±0.5%	±0.005%
S1177-400	0 to ±400	±0.5%	±0.005%
S1177-500	0 to ±500	±0.5%	±0.005%
S1177-700	0 to ±700	±0.5%	±0.005%

INPUT

RANGE	See Table Adc
FREQUENCY	DC to 1kHz
OVERLOAD CONTINUOUS	10KAdc

OUTPUT

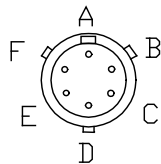
VOLTAGE SIGNAL	0 to ±5Vdc FS
ACCURACY	See Table %FS
RESPONSE TIME (10 TO 90%)	500 u-sec. max.
OUTPUT IMPEDANCE	250 Ohms max.
TEMPERATURE COEFFICIENT	See Table FS/°C
OUTPUT PROTECTION	Short CKT
RECOMMEND OUTPUT LOAD	10KΩ or greater

POWER SUPPLY

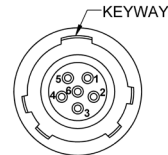
SUPPLY VOLTAGE	+16Vdc to +40Vdc nominal
CURRENT DRAIN	20mA max.
REVERSE POLARITY PROTECTION	100μA max. Current drain without damage
DO-160 POWER INPUT	Section 16 Category B

ENVIRONMENTAL AND PHYSICAL CHARACTERISTICS

OPERATING TEMPERATURE	-55 to +85°C
STORAGE TEMPERATURE	-55 to +125°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 to 70,000 (Method 105, Condition A of MIL-STD-202)
SHOCK	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=0.12G ² /HZ, Duration 1 hr., Figure 514.4-8 Suggested Vibration Levels for High Performance Aircraft 12.5G-RMS Min.
DIELECTRIC STRENGTH	400V RMS Terminals A-E to Case
INSULATION RESISTANCE	100 M-Ohms Min.
FINISH	Fuse Tin Plate
ATTITUDE	Unit will perform as specified when mounted in any position
WEIGHT	9 oz. max.



CONNECTOR P/N
MS3113H-10C6P
OR EQUIV.



-C1 OPTION
CONNECTOR P/N:
D38999/25NA35PN
OR EQUIV.
SHALL MATE WITH P/N:
D38999/26KA35SN
OR EQUIV.

TERMINAL IDENTIFICATION

- A(1). SUPPLY VOLTAGE (+)
- B(2). SUPPLY (RTN)
- C(3). OUTPUT (RTN)
- D(4). OUTPUT SIGNAL (+)
- E(5). SPARE
- F(6). SPARE

ORDERING INFORMATION

S1177	-	200	-	C1
SERIES		CURRENT RANGE		CONNECTOR TYPE
				Blank: MS3113H-10C6P C1: D38999/25NA35PN

AAC

**Drawing Number
700-S1177**

**Rev.
D**