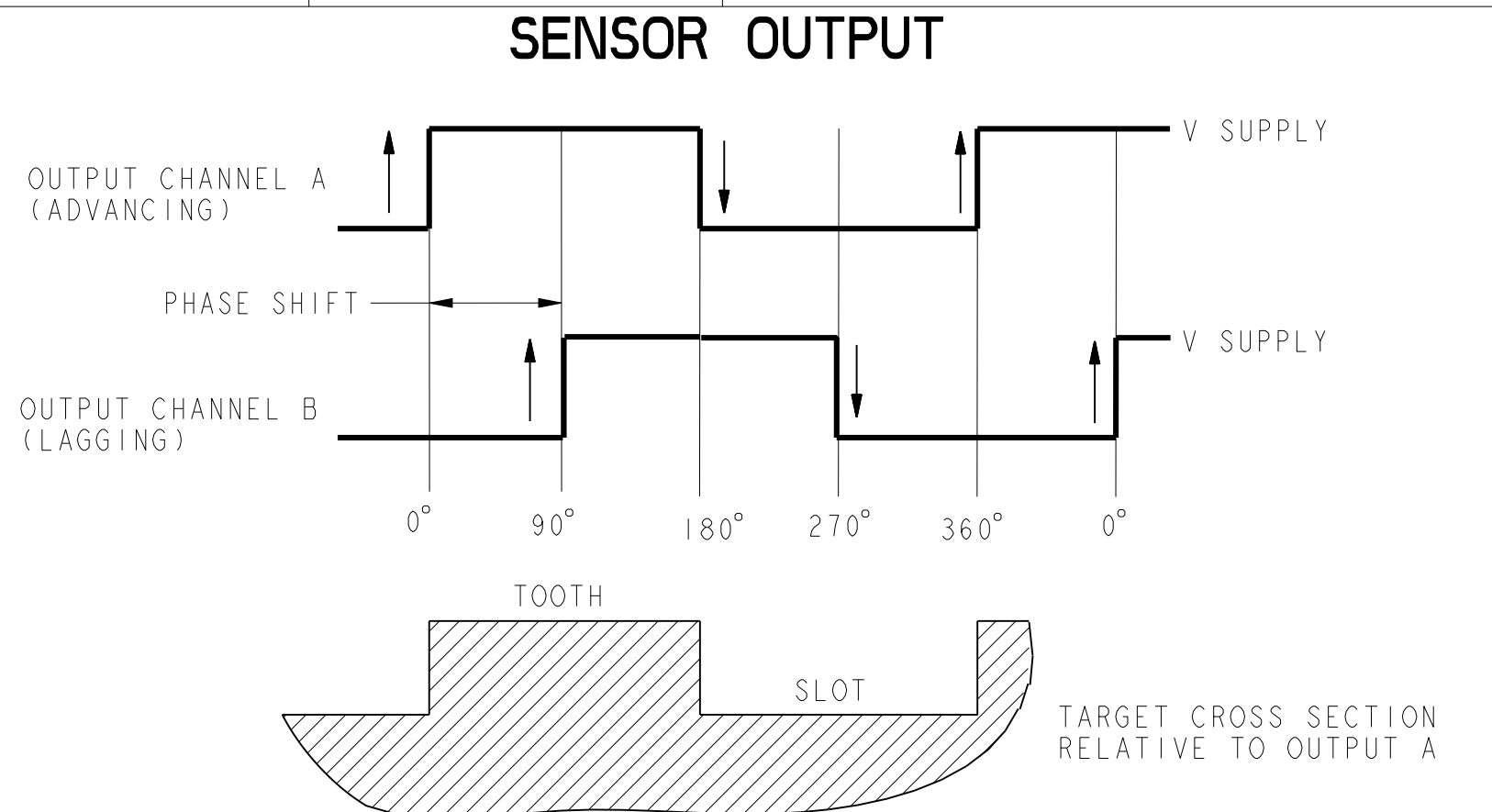
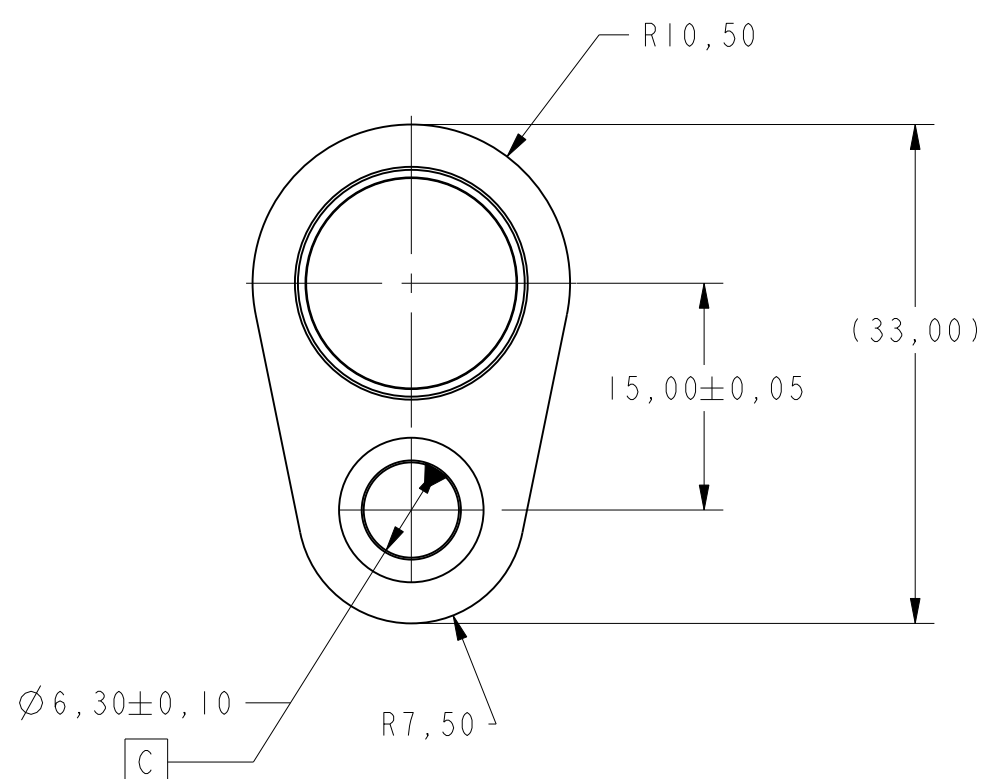
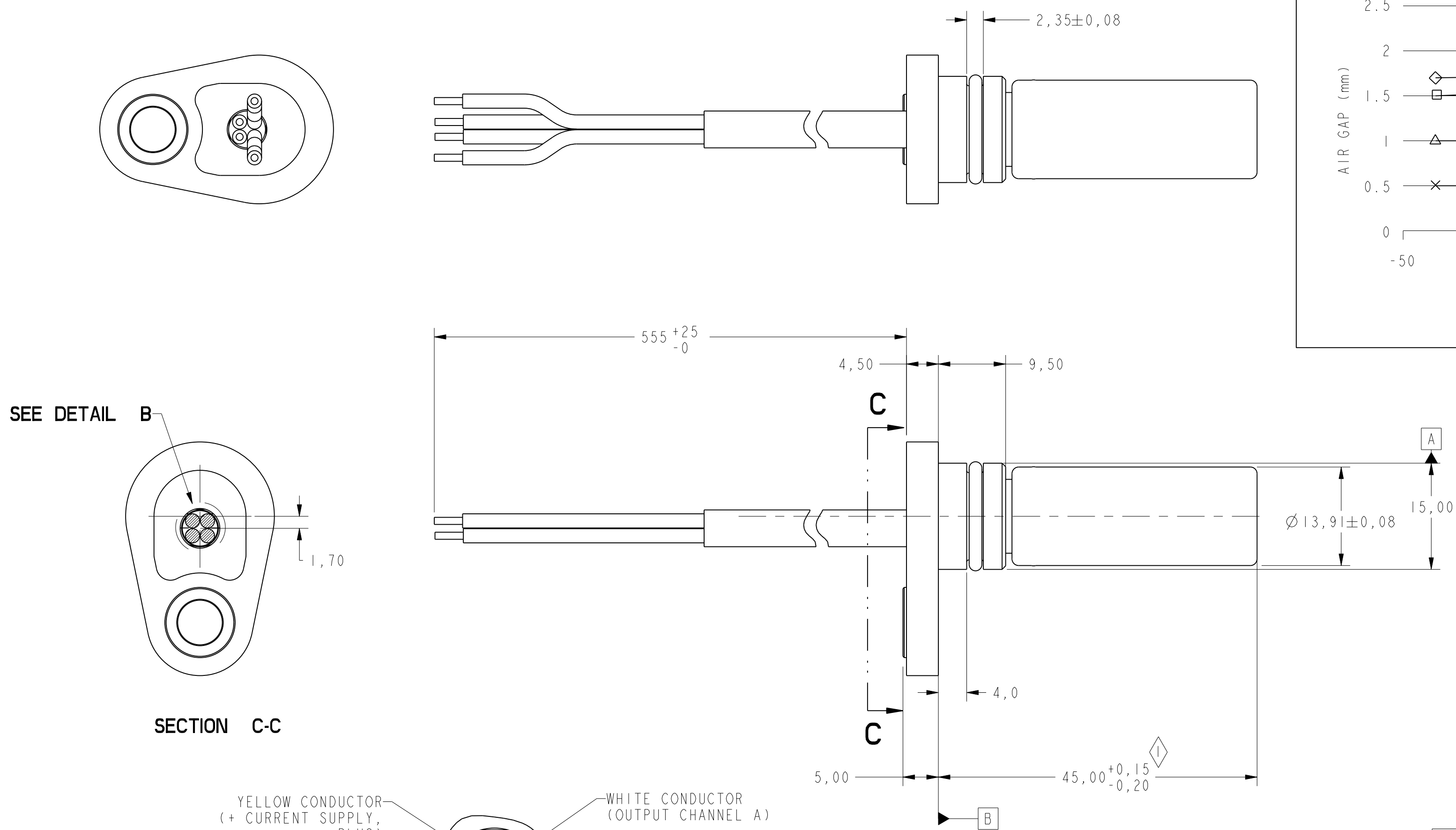
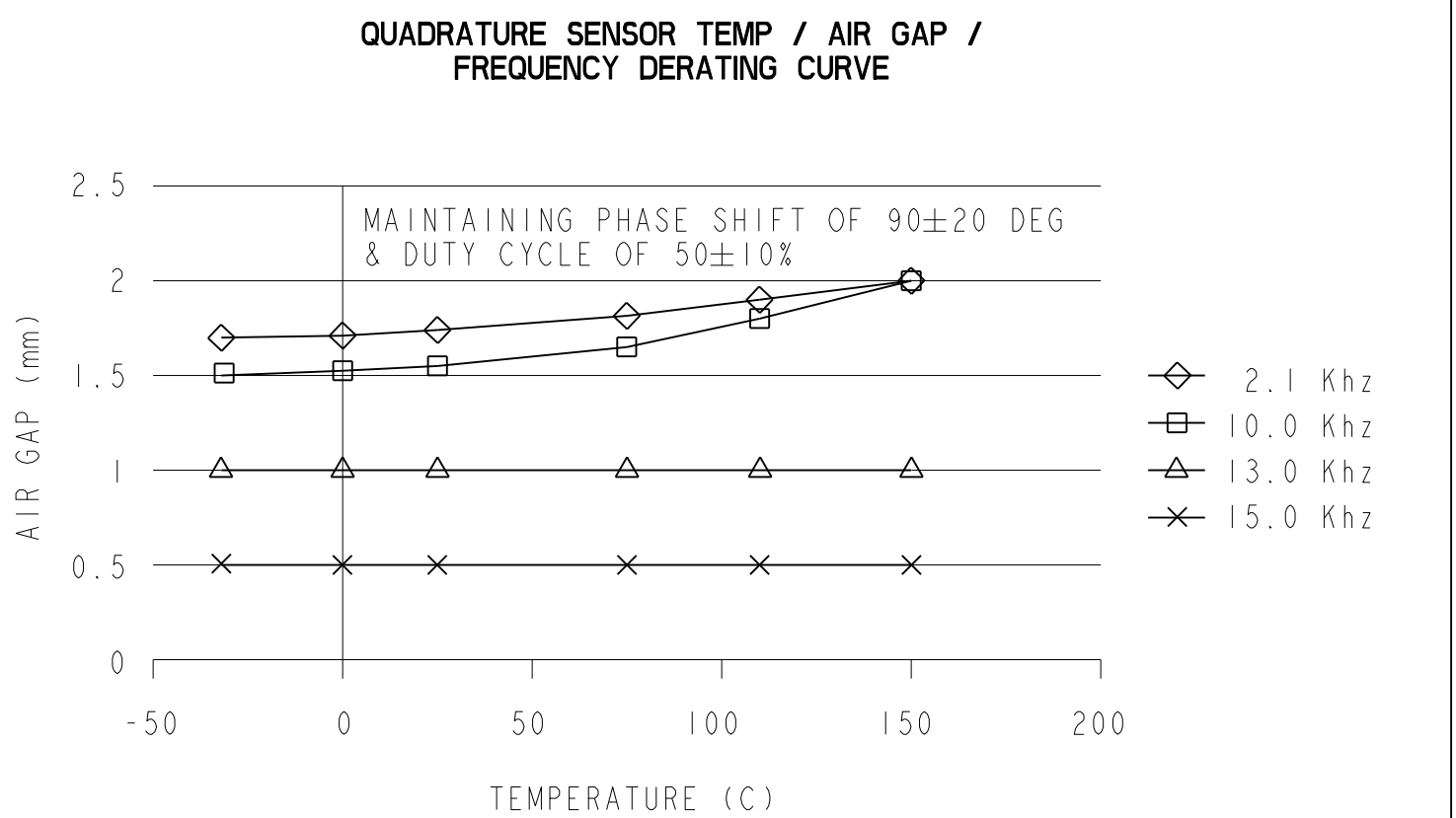



SPECIFICATIONS		
MECHANICAL CONDITIONS		
CONDITION	LIMITS	COMMENTS
SENSING AIR GAP	0.0 - 2.0 MM	MAY ACHIEVE LARGER GAPS WITH TESTING OF ACTUAL TARGET
TARGET TOOTH WIDTH	2.0 MM (RECOMMENDED)	OTHER GEOMETRY MAY BE SUITABLE
TARGET SLOT WIDTH	2.0 MM (RECOMMENDED)	OTHER GEOMETRY MAY BE SUITABLE
TOOTH HEIGHT	> 3.0MM (RECOMMENDED)	SHORTER TOOTH HEIGHTS MAY LIMIT MAX AIR GAP PERFORMANCE
TARGET WIDTH	> 5 MM (RECOMMENDED)	NARROWER TARGETS MAY LIMIT AXIAL OFFSETS
SENSOR MISPOSITION TO TARGET	+/- 1.5 MM	DEPENDENT ON TARGET GEOMETRY

ELECTRICAL CONDITIONS		
CONDITION	LIMITS	COMMENTS
SUPPLY VOLTAGE	4.5 - 18 V	
MAX CONTINUOUS SUPPLY VOLTAGE	18V	
OUTPUT SIGNAL:		
SIGNAL TYPE	SQUARE WAVE	2 CHANNEL, PHASE SHIFTED BY 90 DEG. EITHER CHANNEL CAN LEAD OR LAG
DUTY CYCLE	50 % +/- 10%	
PHASE SHIFT	90° +/- 20°	NOMINAL MAY BE VARIED IF REQUIRED
OUTPUT HIGH	>= VS - 0.5 VOLTS	
OUTPUT LOW	<= 0.5 VOLTS	
LOAD CURRENT	20 MA MAX	EACH OUTPUT AT ALL CONDITIONS
RISE TIME	10 US (TYPICAL)	DEPENDENT ON LOAD RESISTOR
FALL TIME	1US (TYPICAL)	
FREQUENCY	0 TO 15 KHZ	HIGHER FREQUENCIES ABOVE 10KHZ MAY BE DEPENDANT ON TARGET GEOMETRY AND AIR GAP.
SHORT CIRCUIT PROTECTION	80MA	
SUPPLY:		
CURRENT (NORMAL)	13.6MA	ALL CONDITIONS
CURRENT (MAX)	18 MA	ALL CONDITIONS
REVERSE VOLTAGE	-18V MAX	CONTINUOUS

ENVIRONMENTAL CONDITIONS		
CONDITION	TEST PARAMETER	COMMENTS
EMI:		
RADIATED IMMUNITY	100 V/M PEAK	400-2GHZ
BULK CURRENT INJECTION	60 MA	20-400MHZ
ESD	16/8 KV AIR/CONTACT	AGAINST THE CONNECTOR (150PF, 330 OHMS)
FAST TRANSIENT BURST	EN-61000-4-4 LEVEL 4	
EMISSION	EN-61000-6-4	
AUTOMOTIVE TRANSIENTS	ISO 7636/3, TEST PULSE	A&B @ $\pm 80V$
OPERATING TEMPERATURE	-40° TO 150 °C	CONTINUOUS
THERMOSHOCK	-40° TO 150 °C	AIR TO AIR, 1/2 HOUR DWELL, < 10S TRANSITION
HUMIDITY	168 HRS	95% HUMIDITY AT 90 C
SALT FOG	96 HOURS	DIN IEC 6872-11
THERMO SALINE DUNK	5 DUNKS	105C TO 0C AIR TO LIQUID, 5% SALINE
HIGH TEMP EXPOSURE W/POWER	1000 HRS @ 150 °C	
MECHANICAL SHOCK	50G	
VIBRATION	30G, 10 - 2KHZ	
RESISTANCE TO FLUIDS	GENERAL AUTOMOTIVE UNDER THE HOOD FLUIDS	



KEY PRODUCT CHARACTERISTICS			
SAFETY/COMPLIANCE		FIT/FUNCTION	
S/C CHECKPOINTS		F/F CHECKPOINTS	
NO. & TYPE	DESCRIPTION	RATIONALE	PTS.
①	SENSOR FACE TO MOUNTING FLANGE DISTANCE	MAJOR CONTRIBUTOR TO AIR GAP DISTANCE	

DESIGN UNITS: MM		DRAWN		DDN		14 DEC 06		<div>Honeywell</div>									
TOLERANCES UNLESS NOTED:		CHECK		PREM		14 DEC 06											
NO PLACES X ± 1,000		THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL.						TITLE  SENSOR, SPEED & DIRECTION									
ONE PLACE .XX ± 0,4																	
TWO PLACE .XX ± 0,15																	
THREE PLACE .XXX ± 0,005																	
FOUR PLACE .XXXX ± 0,0050																	
ANGLES X ± 3		INTERPRET PER ASME Y14.5M-1994 OTHER HONEYWELL ENGINEERING STANDARDS MAY APPLY						SIZE		D		T		DRAWING NAME		REV	
THIRD ANGLE PROJECTION		Pro/ENGINEER 3D						SCALE		2:1		SNDH-T4L-G01				C	
												SHEET		1 OF 1			