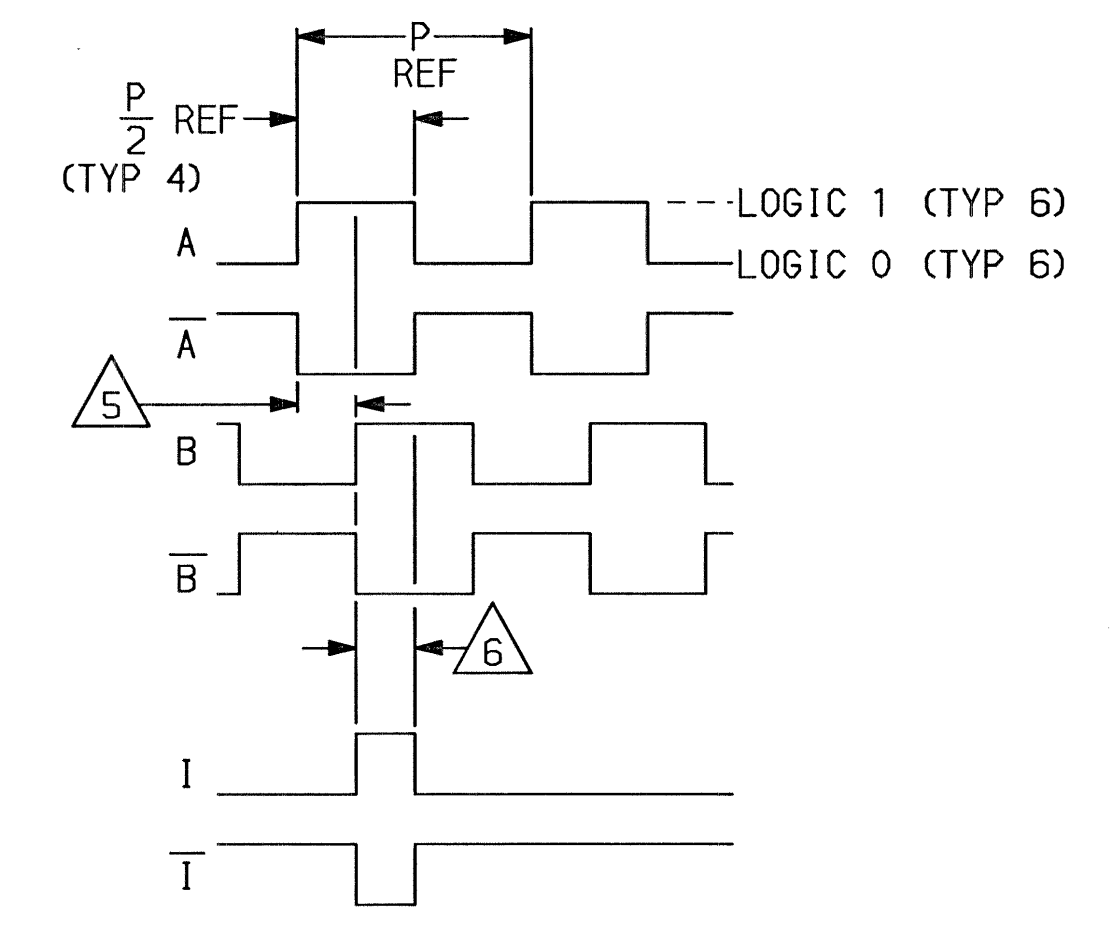
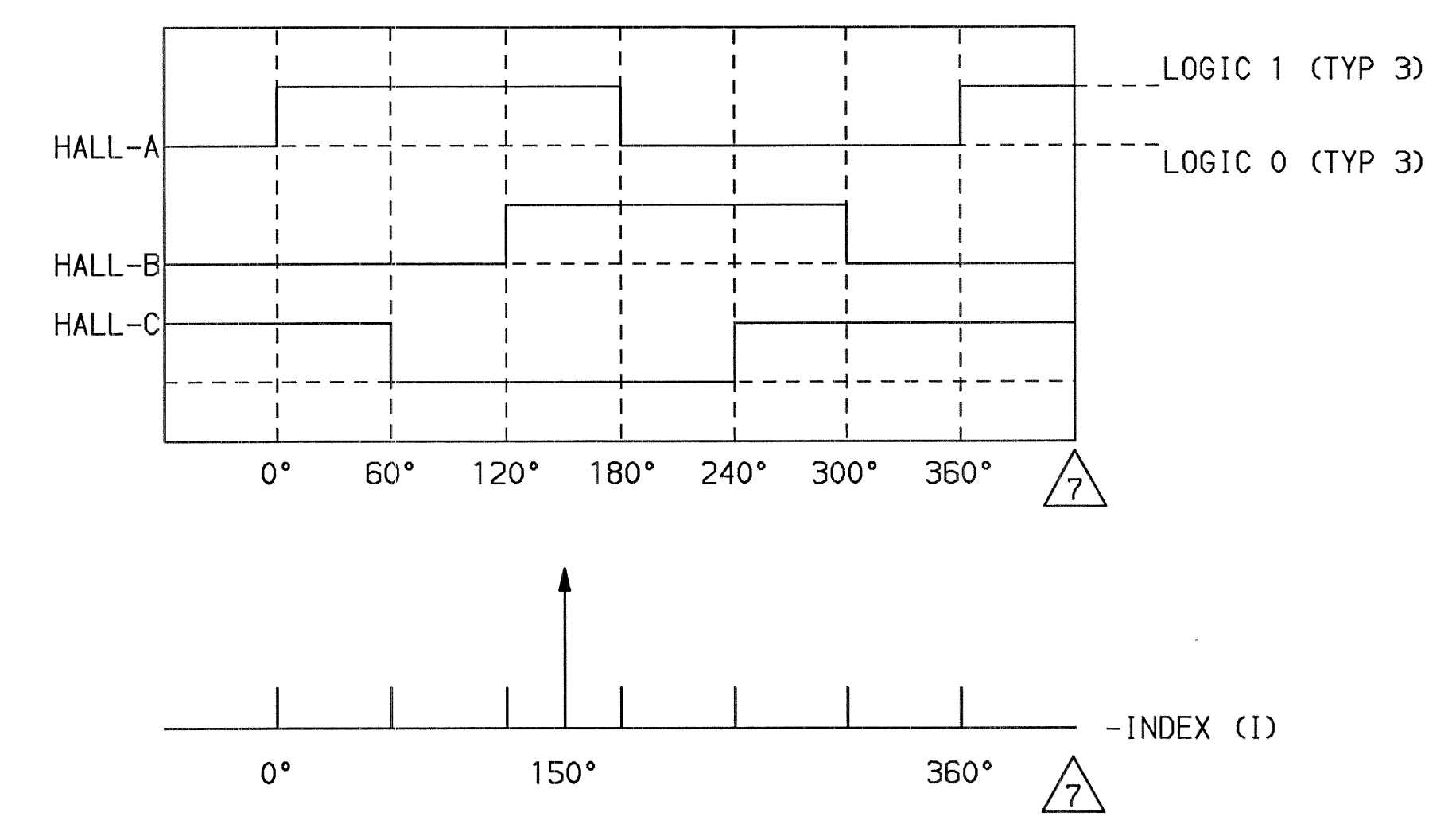
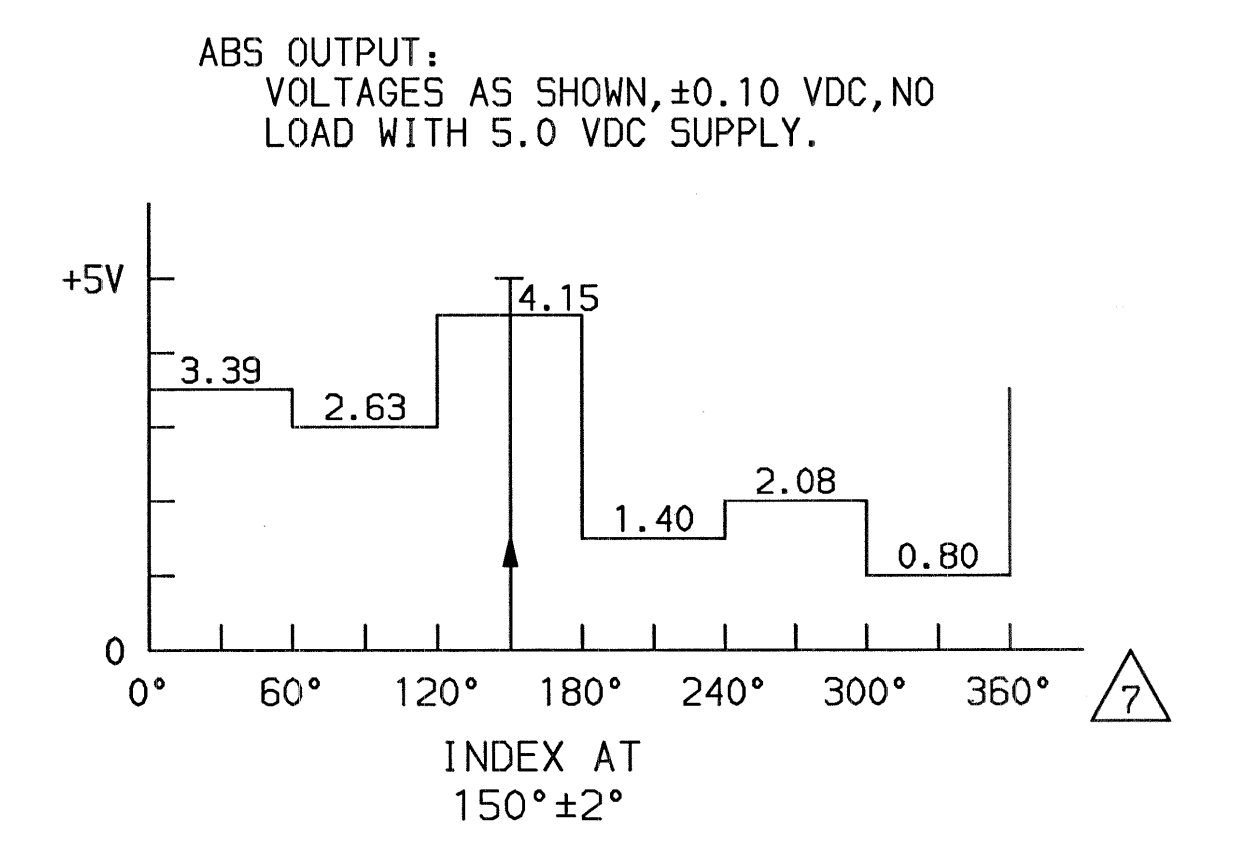


SPECIFICATIONS:

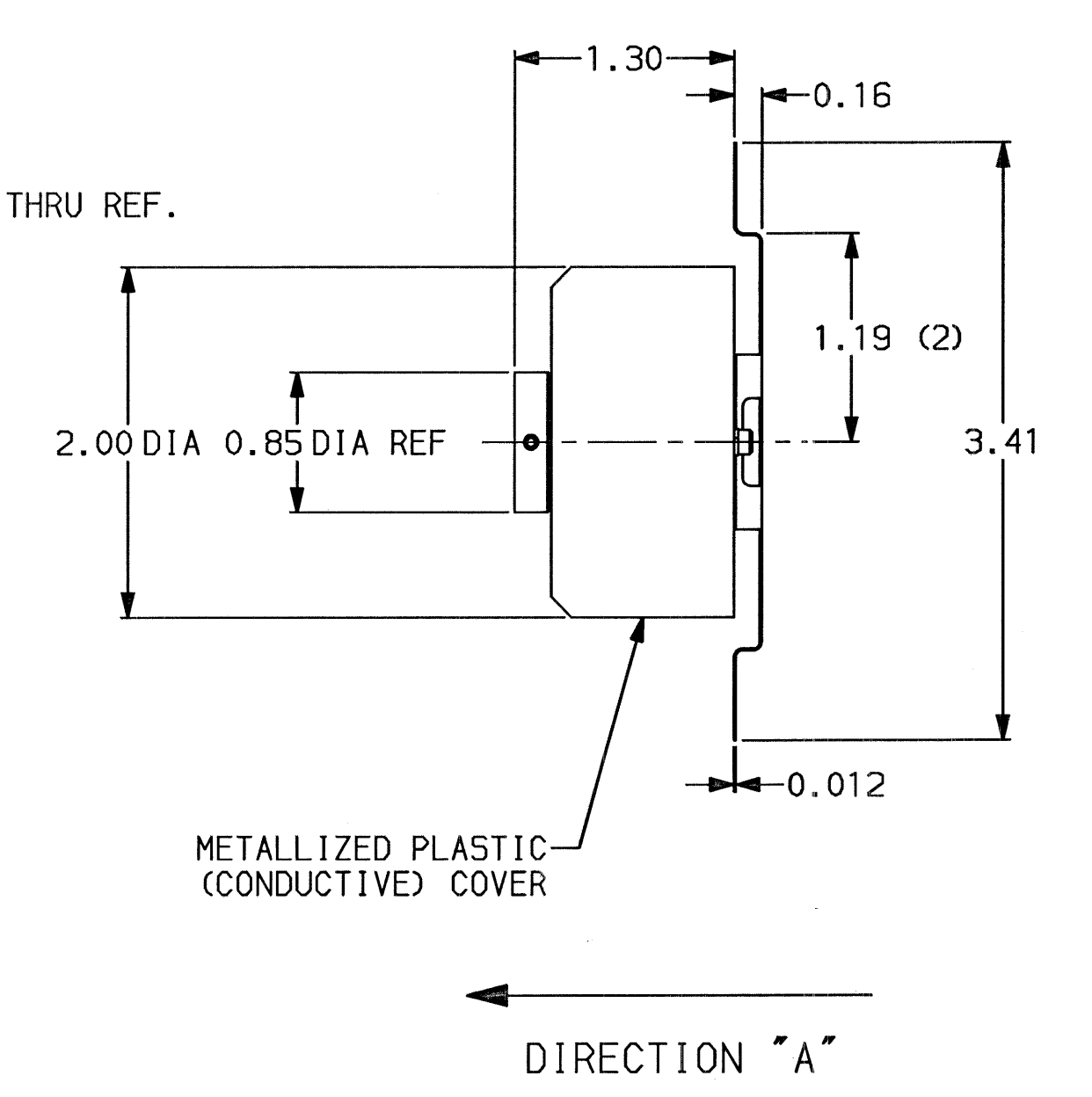
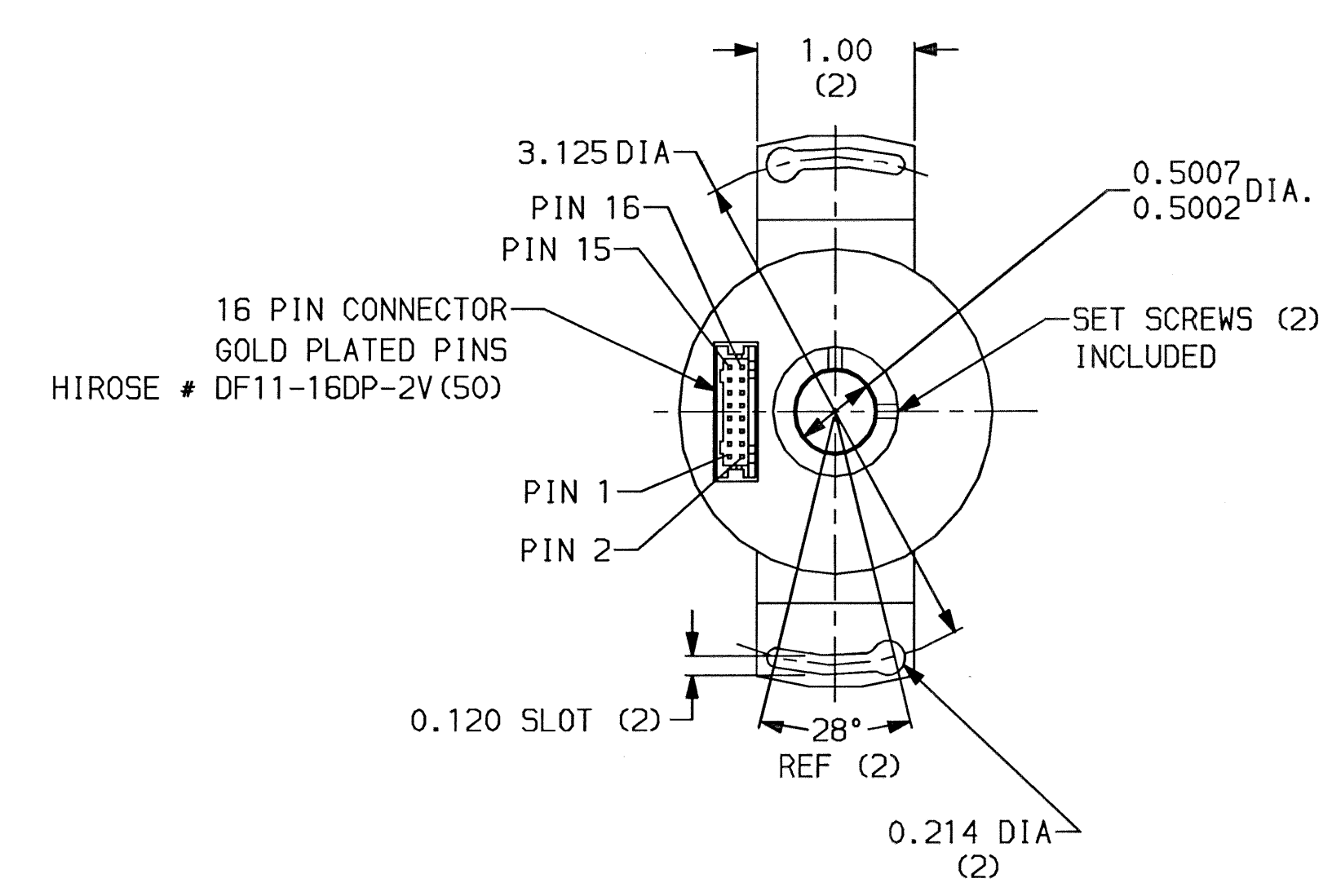
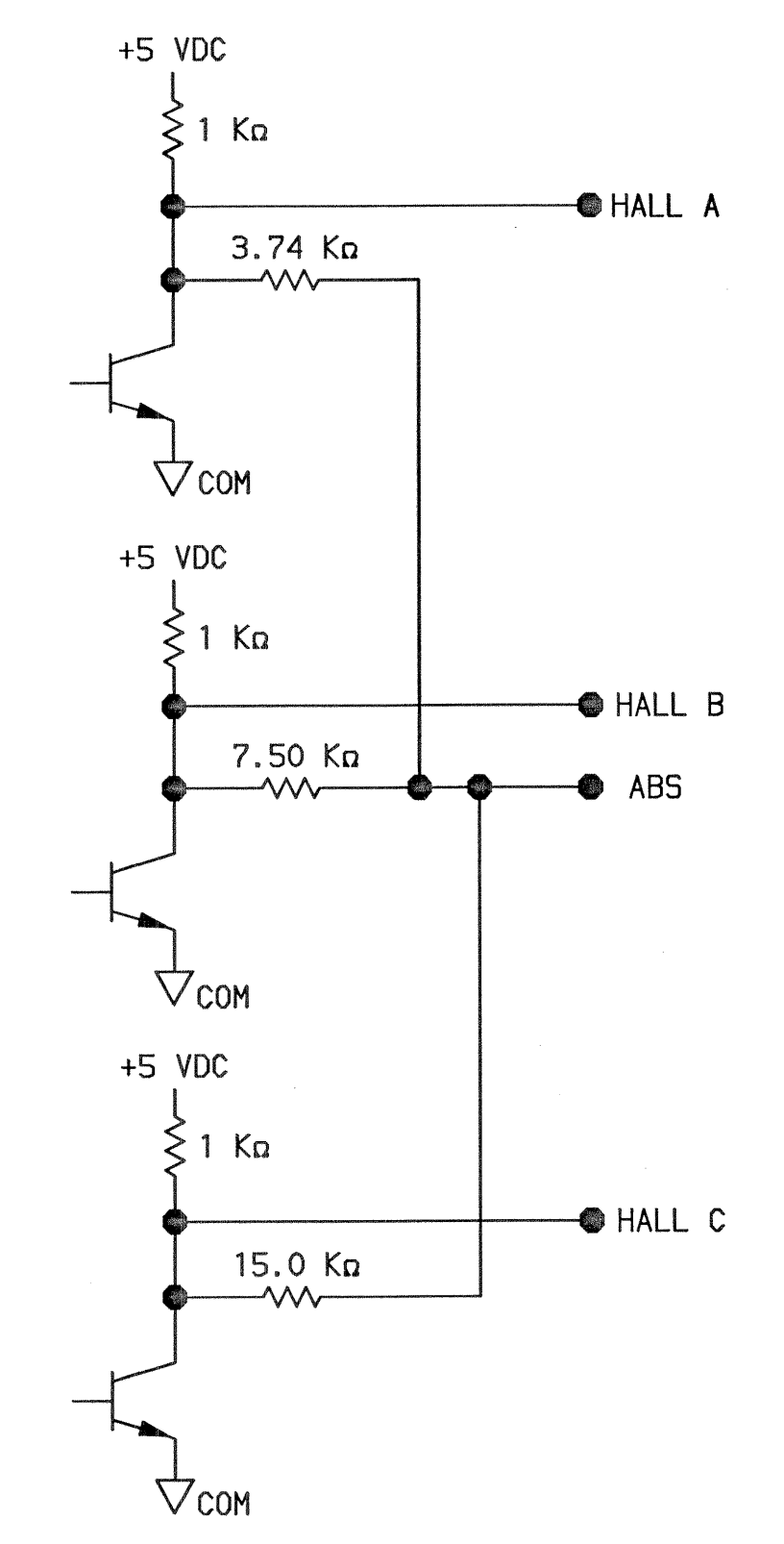
1. A, \bar{A} , B, \bar{B} , LINE COUNT: 5000 PULSE PER REVOLUTION.
2. HALL A, B, C LINE COUNT: 4 PULSE PER REVOLUTION (8 POLE COMMUTATION).
3. INPUT VOLTAGE: 5.0 ± 5% VDC.
4. INPUT CURRENT: 250mA DC MAX. AT 5.0 VDC INPUT VOLTAGE, WITH OUTPUTS LOADED PER SPECS 5, 6, 7 BELOW.
5. A, \bar{A} , B, \bar{B} , I, \bar{I} , OUTPUT: TTL LINE DRIVER.
LOGIC "1" = 2.5 VDC MIN AT 20mA DC SOURCE.
LOGIC "0" = 0.5 VDC MAX AT 20mA DC SINK.
6. HALL A, B, C OUTPUT:
LOGIC "1" = 3.5 VDC MIN AT 1mA DC SOURCE WITH 5.0 VDC SUPPLY AND NO LOAD ON SIGNAL ABS.
LOGIC "0" = 0.5 VDC MAX AT 5mA DC SINK.
7. ABS OUTPUT: 1.0 mA DC MAX, SEE WAVEFORM FOR VOLTAGES.
8. OPERATING SPEED (MECHANICAL LIMIT): 6000 RPM MAX.
9. OPERATING TEMPERATURE RANGE: 0°C TO 100°C.
10. STORAGE/SHIPPING TEMPERATURE RANGE: -30°C TO +110°C.
11. OPERATING HUMIDITY RANGE: 5% TO 90% RELATIVE, NON-CONDENSING.
12. OPERATING FREQUENCY: (ELECTRICAL LIMIT) 0 TO 300 kHz FOR A, B, \bar{A} , \bar{B} .
0 TO 60 Hz FOR I, \bar{I} .
0 TO 240 Hz FOR HALL A, B, C.



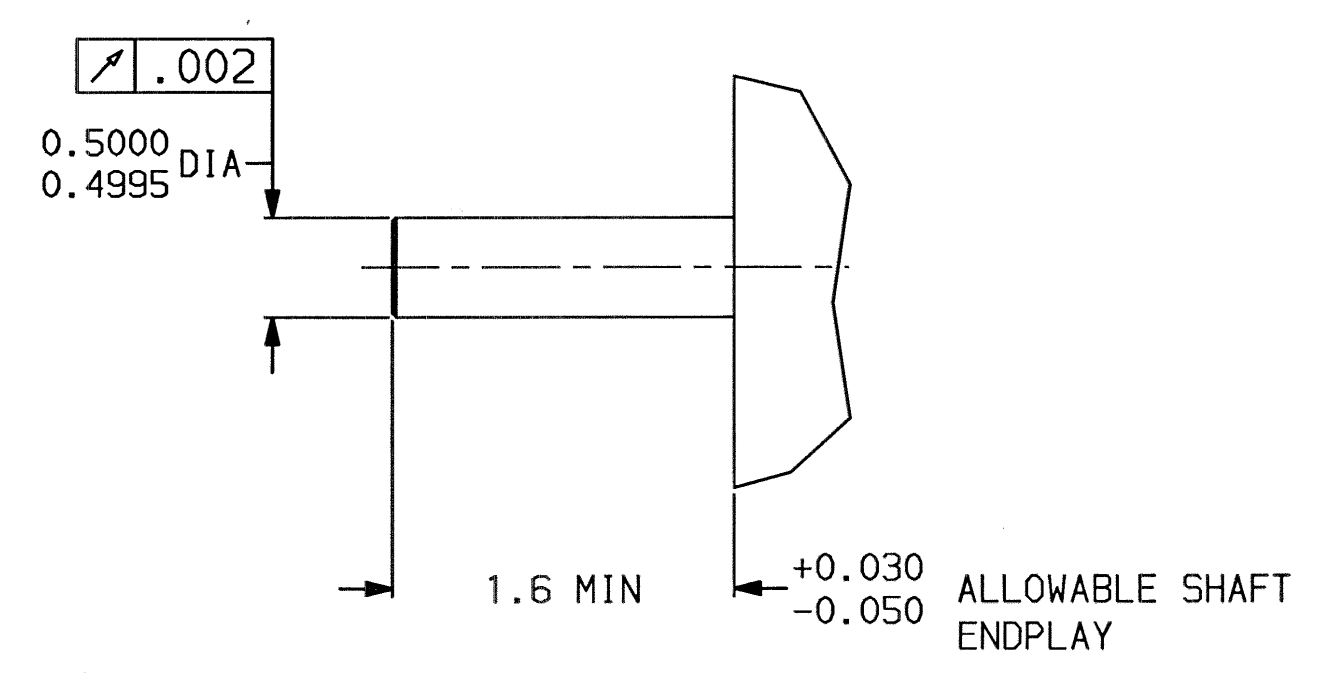
OUTPUT WAVEFORMS RESULT FOR CW SHAFT ROTATION VIEWED FACING DIRECTION "A"



HALL A, B, C, ABS SIGNALS SCHEMATIC (REF.)



MOUNTING SHAFT REQUIREMENTS (REF.)



PIN-OUT	
ENCODER CONNECTOR	
PIN	FUNCTION
1	+5 VDC
2	HALL A
3	COM
4	HALL B
5	A
6	HALL C
7	\bar{A}
8	ABS
9	B
10	-
11	\bar{B}
12	-
13	I
14	-
15	\bar{I}
16	GROUND

NOTES:

1. MANUFACTURER: SEE QML
2. MUST COMPLY WITH SPEC 7058-9978.
3. MANUFACTURER'S PART NO. INCLUDING REV LEVEL SUFFIX (BLANK OR LETTER) PER QML AND DATE CODE MUST BE MARKED ON ENCODER.
4. A 0.15 μ F CAPACITOR IS CONNECTED FROM CIRCUIT COMMON (COM) TO ENCODER CASE (GROUND) INTERNAL TO THE ENCODER.
5. P/5.33 MIN FOR ALL A TO B EDGE TRANSITIONS (AND ALL \bar{A} TO \bar{B} EDGE TRANSITIONS).
6. 1 INDEX PULSE PER REV, GATED WITH BOTH A AND B AT LOGIC 1 REF.
7. HALL A, B, C, ABS WAVEFORMS SHOWN ARE IN ELECTRICAL DEGREES. (FOR 8 POLE COMMUTATION, 360° MECHANICAL = 1440° ELECTRICAL.)

B	23617	SJ	CHANGE WAVEFORM	3/13/02	
A	23608	SJ	RELEASED	3-1-02	SJ
REV	ECO	BY	REVISION DESCRIPTION	DATE	CHKR
UNLESS OTHERWISE SPECIFIED			DRAWN BY	DATE	DESIGN ENGR
DO NOT SCALE DRAWING			SJ	2-27-02	SJ
DIMENSIONS ARE IN INCHES			ENCODER, 5000 CT, 8-POLE COMM		
BREAK ALL EDGES .02 MAX			TOLERANCE ON:		
FILLETS AND ROUNDS .02 R MAX			ANGLES \pm 1°		
DECIMALS .XX \pm .010			PART NO. 0018-7052		
.XXX \pm .005			Confidential Information of ROCKWELL AUTOMATION		
			Eden Prairie, MN 55344		
			SCALE 1:1		
			DWG SIZE D		
			SHEET 1 of 1		