

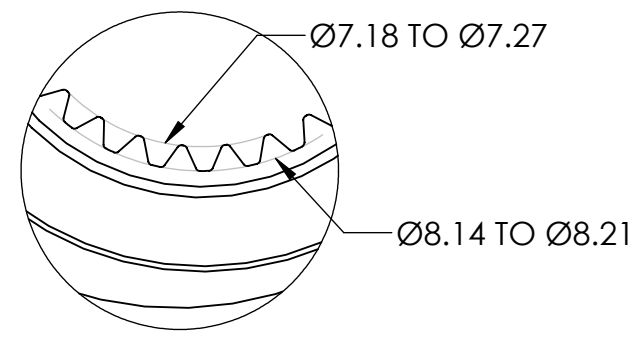
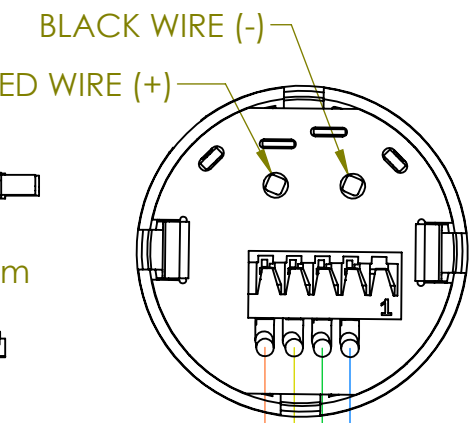
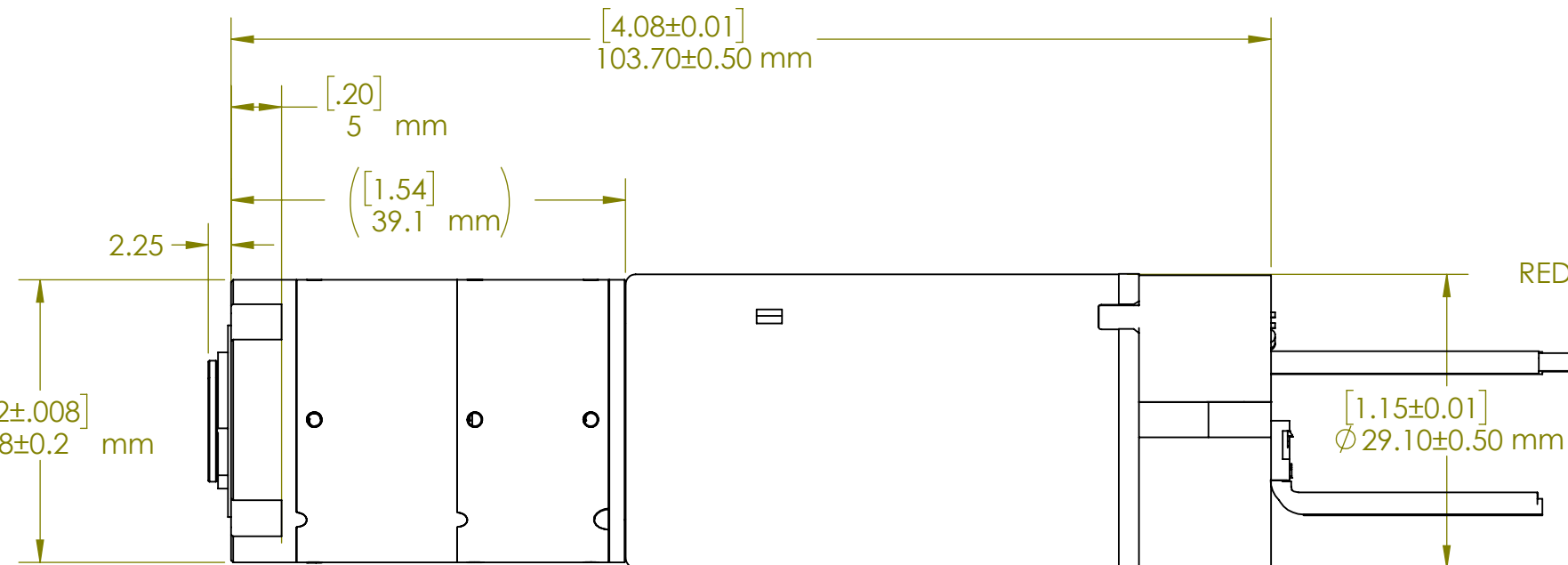
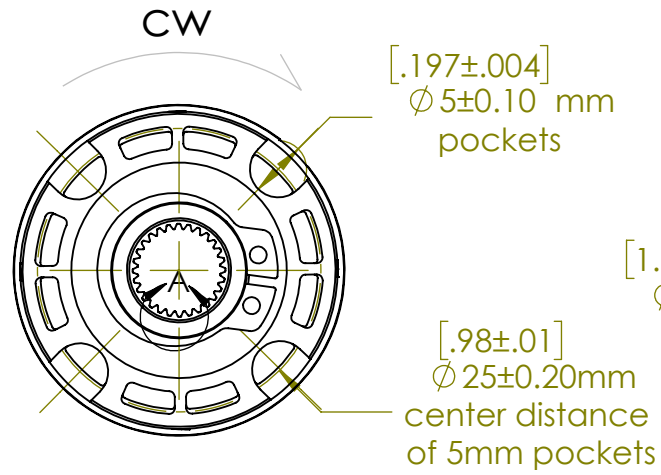
4

3

2

1

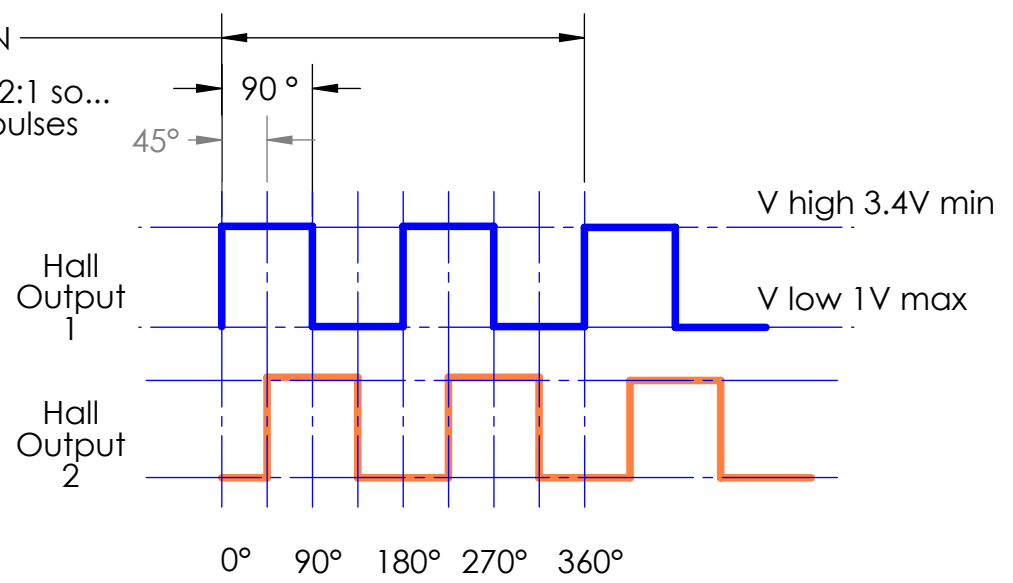
WHEN (+) VOLTAGE AT RED WIRE



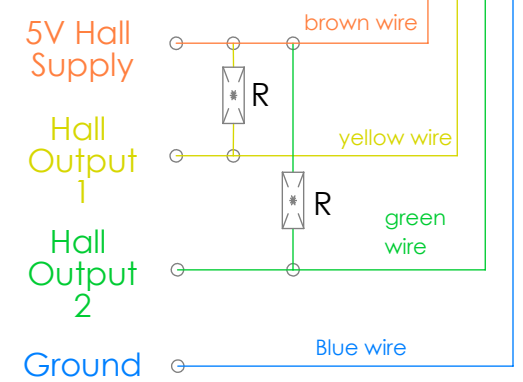
DETAIL A  
SCALE 7 : 1

ONE MOTOR ROTATION

Note: Gear reduction is 22.2:1 so...  
one output rotation is 44.4 pulses



Direction CW if Hall Output 1 rises before Hall Output 2



R=1kΩ pullup (8 kΩ required for RoboRio due to built in pullup)

A

Rated Voltage	12V	
Performance with Gear box at RT	N/L speed	410 +/- 49rpm
	N/L current	2A max
	Stall Torque	3.8 - 5Nm [2.8ft-lbs-3.7ft-lbs]
	Stall current	26A
General details	Gearbox ratio	22.2:1
	Gearing	Planetary 2 stage
	Weight	0.27 Kg [0.6 lbs]

**PROPRIETARY AND CONFIDENTIAL**

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UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN mm[in]		DRAWN	
TOLERANCES:		CHECKED	
FRACTIONAL ±		ENG APPR.	
ANGULAR: MACH ± BEND ±		MFG APPR.	
TWO PLACE DECIMAL ±		Q.A.	
THREE PLACE DECIMAL ±		COMMENTS:	
INTERPRET GEOMETRIC TOLERANCING PER:	MATERIAL		
FINISH			
NEXT ASSY	USED ON		
APPLICATION	DO NOT SCALE DRAWING		



TITLE:  
**PLG motor for FRC**

SIZE	DWG. NO.	REV
<b>B</b>	<b>JE-PLG-149</b>	<b>2</b>
SCALE: 1:1.5WEIGHT:		SHEET 1 OF 1

4

3

2

1

A