

Homework – Dynamixel Wizard XL-320 Smart Servo

The XL-320 Dynamixel was the smart servo covered Lab. Using this as reference, complete the following problems. For each question, provide:

- URL of the XL-320 online E-manual showing this information
- Image capture of online E-manual showing this information
- Link to your YouTube video confirming your answer using the Dynamixel Wizard

Try to confirm and/or justify answers using things like a protractor, timer, hand calculations, etc

1. What Goal Positions corresponds to the XL-320 being at its maximum clockwise and counter-clockwise positions? (10-points).
2. What is resolution of the XL-320 servo in degrees? Hint: Maximum angular range is 300 degrees. (10-points).
3. What is the maximum angular velocity in degrees/sec? (10-points)
4. Set the angular velocity to 150. With a stopwatch, how many seconds does it take for the XL-320 servo horn to rotate once? (10-points)