Linear Position Sensors for Mobile Sawmill Automation

Problem

The need for automation in a sawmill is greater today than ever before. Typically, each log is scanned to determine the maximum number of boards of varying dimensions that can be produced. Once that is determined, technology takes over and the saw blades are automatically adjusted to cut the log into boards. Most stationary sawmills use Rod Style products such as our 953 VMAX, installed in hydraulic cylinders. However, in the mobile sawmill arena, operators rely on manual adjustments or other low cost Linear Transducers to adjust the saw blade height.

Solution

The 955 eBrik II™ Linear Displacement Transducer (LDT) is an ideal alternative to Linear Potentiometers and other low cost Linear Transducers such as those made by our competitors: MTS (EP2) or Balluf (BTL6). The advantages of the 955 eBrik II over the low cost EP2 or BTL6 is the shape of our package, the fact that we offer both voltage and current outputs, and that we can handle either a Floating or Slide Magnet assembly. The competitive low cost units only offer voltage outputs and can only accept floating magnet assemblies.

Our 5-pin connector simplifies wiring and allows for quick replacement. Programmability allows you to rescale the LDT exactly for your application, or you can fine tune it in the field. If there is ever a fault, the eBrik II will transmit a fault voltage or current warning to the host controller indicating a problem.

Benefits

- Floating or Slide Magnet options for easy integration to a host machine
- Non-contact technology (Magnetostrictive)
- Programmable Zero and Span points
- Industry standard mating cordset for easy replacement — 5-pin 12 mm Micro
- Absolute analog feedback (Voltage or Current) — 16 bit resolution
- Longevity — Nothing to wear out
- Economically priced
- Wide operation temperature range with low drift

Conclusion

The 955 eBrik II is designed for applications where economical, continuous feedback is necessary. The sensor can be a cost effective replacement to linear potentiometers and other competitive, low cost transducers, limit, and proximity sensors. Applications include portable sawmills, injection molding, blow molding, extruding, hydraulic presses, roll positioning, tire press, material handling, web tensioning, hydro power generation, and many more.

The 955 eBrik II

Lumber

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