AMETEK®
AUTOMATION & PROCESS TECHNOLOGIES

Application
Sawmill

Products Used
955 eBrik™

Problem
The need for automation in a sawmill is greater today than ever before. Each log is typically scanned to determine the maximum number of boards of varying dimensions that can be produced from a single log. Once that is determined, automation takes over and automatically adjusts the saw blades to cut the log into boards. In most stationary sawmills, they use our Rod Style products such as our 953 VMax installed in Hydraulic cylinders. However, in the mobile portable sawmill arena, they rely on manual adjustments or other low cost Linear Transducers to adjust the saw blade height.

Solution
The 955 eBrik™ Linear Displacement Transducer (LDT) is an ideal alternative to Linear Potentiometers and other Low cost Linear Transducers, such as the LDT's made by our competitors MTS (EP2) or Balluff (BTL6). The advantages of the 955 eBrik™ over the low cost EP2 or BTL6 is the shape of our package and the fact that we offer both voltage and current outputs and we can handle either a Floating or Slide Magnet assembly whereas 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 fine tune it in the field. Diagnostics are built into every unit and are transmitted to the host controller via the analog output. If, there is ever a fault, the eBrik™ will transmit a fault voltage or current warning the host controller that there is a problem.

Benefits
- Floating or Slide magnet option for easy integration to host machine
- Non-contact technology (Magnetostrictive)
- Programmable Zero & Span points
- Industry standard mating cordset - 5 pin 12mm Micro for easy replacement
- 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™ 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, sawmill, Hydro power generation and many more.

GEMCO® B/W Controls LIQUID LEVEL TECHNOLOGY CATRAC

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