AMETEK®
AUTOMATION & PROCESS TECHNOLOGIES

Application
Baler/Crusher

Products Used
955 eBrik™

Problem
Shopping centers and recycling centers use Baler machines to compact paper, cardboard and metals into bales that can then be sent off for recycling. These machines use large Hydraulic cylinders to compact the material and then to push the bale out of the baler. Many of these machines are outfitted with mechanical limit switches to control the Ram position and ejectors. When mechanical limit switches are used, the baler only knows fully opened or closed and must make a full cycle if it is only half full.

Solution
The 955 eBrik™ Linear Displacement Transducer (LDT) is an ideal alternative to Limit Switches and when installed properly will provide absolute feedback to the host controller. The 955 eBrik™ can provide either a voltage or current output that will tell the host controller exactly where it is at within it's stroke, thus eliminating the need for the Ram to stroke fully when it is only half full. Our 5 pin connector simplifies wiring and allows for quick replacement. Programmability allows the user the ability to rescale the LDT for their application if desired, 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

- Non-contact technology (Magnetostrictive)
- Absolute analog feedback (Voltage or Current) – 16-Bit resolution
- Longevity – Nothing to wear out
- Floating or Slide Magnet option for easy integration to host machine
- Programmable Zero & Span points
- Industry standard mating cordset- 5 pin 12mm Micro for easy replacement
- 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, 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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