



**Application**  
Recycle Baler

**Products Used**  
955S

**Problem**

Shopping and recycling centers use Baler machines to compact paper, cardboard, and metals into bales that can then be sent off for recycling. In many cases, mechanical limit switches or LDTs with slide magnets are used to control the position of the RAM. Limit switches prevent control by only allowing full open or full closed positions which increases cycle time when the machine is only half full. LDTs with captive slide magnets can bind up when sticky liquids or other materials build up around the magnet assembly.

**Solution**

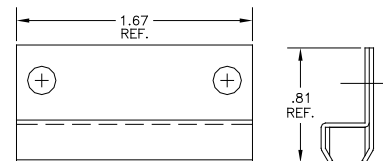
A 955S BRIK with continuous feedback paired with the new Gemco floating magnet (SD0551500) solves these problems. The analog signal is fed back to the PLC for absolute control. There is no need for linkage when using this floating magnet and it can be mounted up to 3/8" away from the extrusion which prevents sticky build up from interrupting machine function. It is also capable of detecting the signal with up to 1/2" of lateral movement caused by machine vibrations.

**Benefits**

- Increased productivity
- Sticky materials will not bind the magnet
- Less maintenance and cleaning required
- Larger magnet accommodates for drive mechanism slop

**Conclusion**

The 955S with new floating magnet allows for greater mis-alignment of the magnet assembly to the drive mechanism. The continuous absolute analog feedback reduces cycle times and increases productivity.



AppNote.AOR  
3/07.Z317