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**Application**  
Edge Trimmer

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**Products Used**  
955

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## Problem

Edge trimmer on a “Strilich” cut to length line. As a coil is un-wound the steel will be cut to a particular length and these steel plates will be stacked. The series 955 LDT will be used to monitor the adjustment of the two side edge trimmers. As the trimmers increase in width the difference between the two floating magnets will increase and thus provide a 4 to 20 mA output that represents this difference. Many times these trimmers are controlled with a ball screw where they only monitor a single magnet. In the arrangement you can only measure 1/2 of the movement and backlash comes into play.

## Solution

To solve this problem we used a 955A-D1-0870-X that could measure the difference between two magnets. The customer went with our D1 differential 4 to 20mA format that reported the distance between the magnets back to their controller.

## Benefits

- Absolute continuous analog feedback
- Since we are monitoring the difference between two magnets, backlash is not a factor

## Conclusion

The absolute continuous analog feedback ensures that the controls know exactly where it is at, even in the event of power loss. Differential units are available with 0 to 10 VDC or 4 to 20mA outputs.



AppNote.AOR  
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