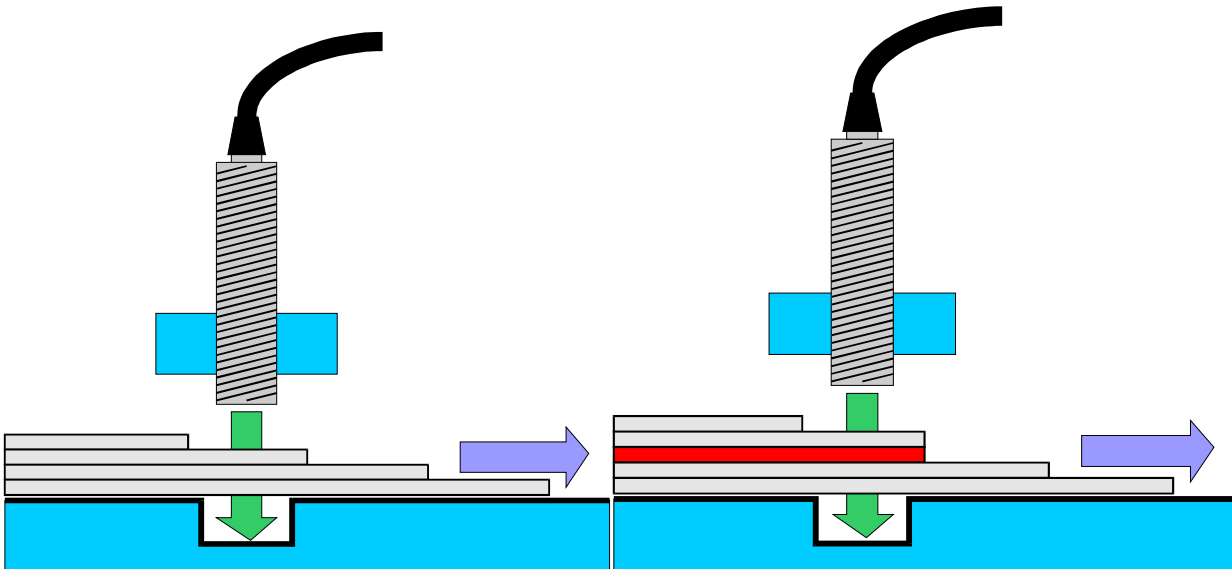


<b>Technical application example</b> <b>Proximity Sensor</b>	
<b>Documentnumber:</b>	<b>TR04HÖ360-100.doc</b>
<b>Issue:</b>	
<b>Date:</b>	<b>06.May.2004</b>
<b>Author:</b>	<b>F. Höhne</b>
<b>Page count:</b>	<b>4</b>



## Situation

This version of the *ASTYX Proximity Sensor 2012* measures paper thickness for counting the number of paper layers.



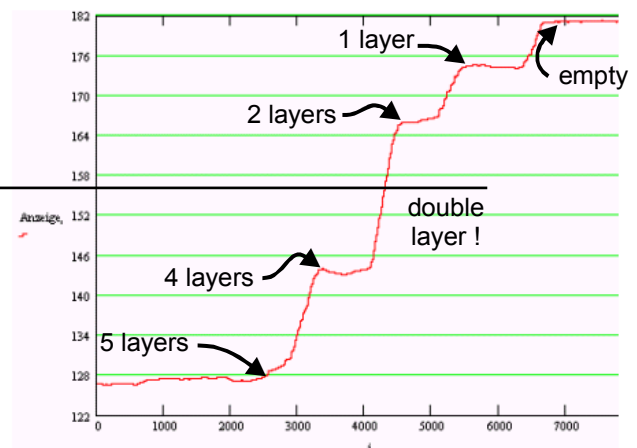
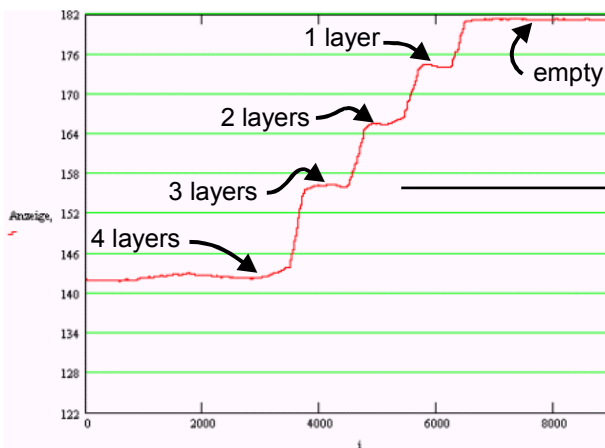
Count layers one to four

Count layers one to five  
(Notice: one double layer !)

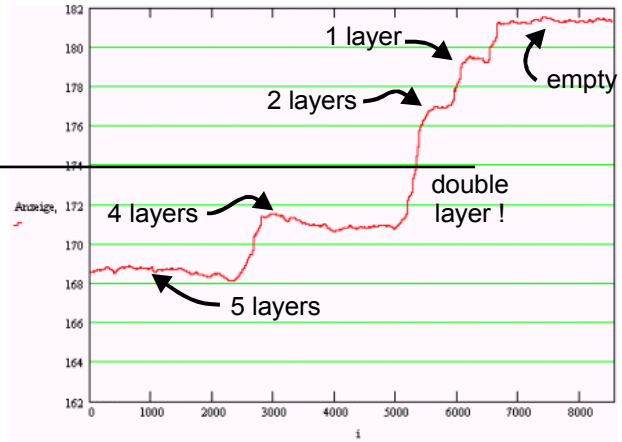
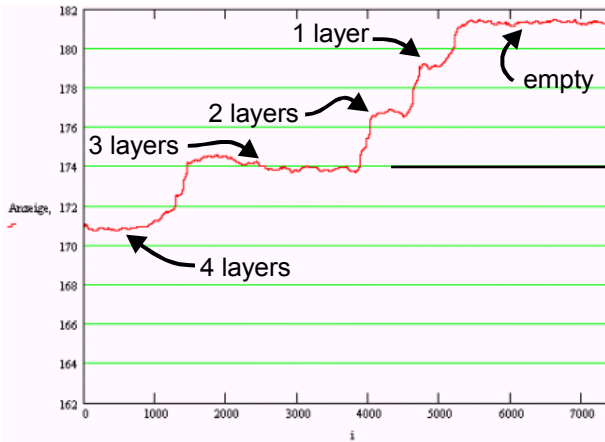
The sensor measures if and how many layers of paper are actually present. The measurement update rate of 1000 samples per second can be raised up to 5000 samples per second.

## Results

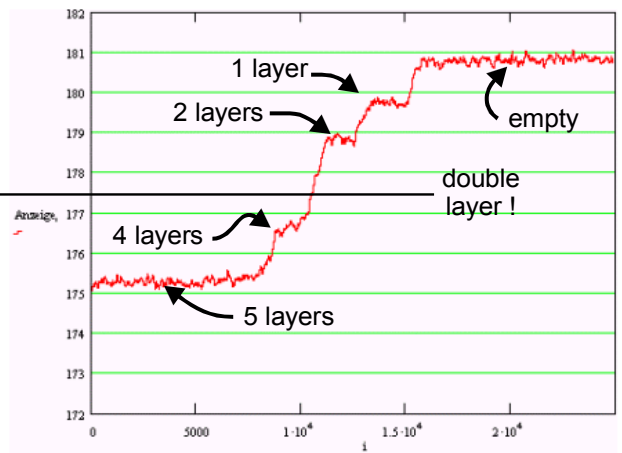
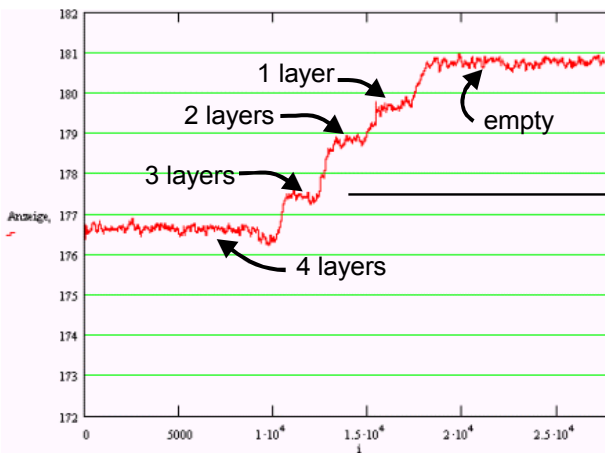
1) Quality: Thick paper    Thickness: 270 $\mu$ m/Layer    Weight: 200g/m<sup>2</sup>



2) Quality: Printer paper Thickness: 100µm/Layer Weight: 80g/m<sup>2</sup>



3) Quality: Thin paper Thickness: 35-40µm/Layer Weight: 38g/m<sup>2</sup>



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