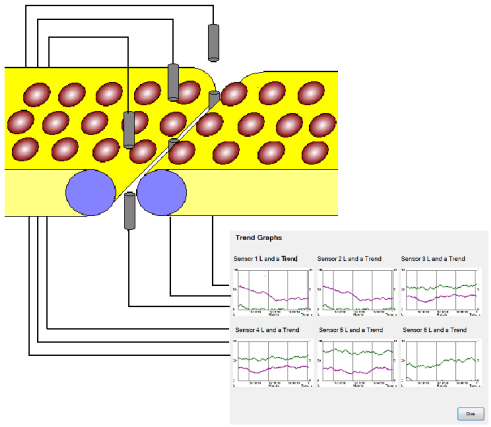
Application Sheet - Biscuits

Colour Measurement Results

Application

The application is to measure the colour of biscuits , typically at three points across the production line. The underside is also possible looking up between rollers or through a small whole made in metal slides , typically at changeover points in the line.



Method

The Senware colour system typically reads colour in the widely accepted CIE L* a* b* standard (other scales possible). Each measurement point determines when a biscuit is under the sensor . The small spot from the sensor , and fast measurement speed means that depending on line speeds the sensor will typically measure 20 points across each biscuit . So for a biscuit with multiple colours an average value is produced .

Due to fast line speeds , typically the systems calculates a running average based on the average of 20 - 30 results. These results can be converted to 4 - 20 mA signals for each of the L, a and b signals for each sensor , or read across an industrial bus solution such as Ethernet/IP etc.

Graphical representation of the data is also available as an option.

Typical Colour System Sensor Installation :-

Reasons for Senware 's Colour System

1) The Senware colour system uses fast automatic gating that calculates the average colour of each biscuit.
2) The system typically updates on a running average of user selectable multiple biscuits.
3) The system is easy to use and set up
4) Multiple measurement points means typically the colour from both sides of the line and middle can be measured.
5) Underside measurement is possible.

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