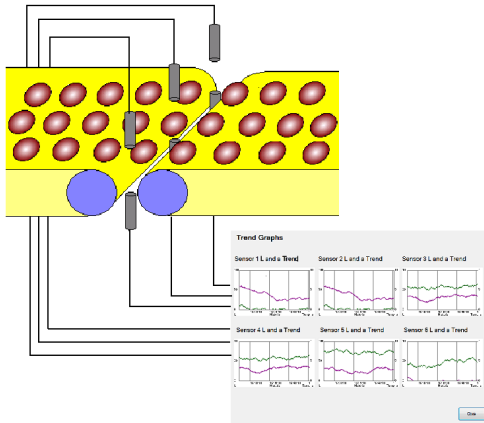


Application Sheet - Biscuits

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 hole made in metal slides , typically at changeover points in the line.



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.

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 :-



Senware Limited

Unit 4, Adelaide House
Corbygate Business Park
Corby, Northants. NN17 5JG

For More Information :-

Tel:- +44 (0)1536 408066
Fax :- +44 (0)1536 407813
Email :- sales@senware.co.uk
Website www.senware.co.uk

DASTEC S.R.L.

Representantes / Distribuidores Exclusivos
Buenos Aires, Argentina
Tel.: (54 - 11) 5352-2500
Email: info@dastecsr.com.ar
Web: www.dastecsr.com.ar