

“Spectra-cular” Measurements

Confocal chromatic sensors offer modern technology allied with high speed and maximum precision and make them suitable for Industry 4.0

Alexander Streicher

Meet us at
SPS IPC Drives
Hall 7A
Booth 130

In a world of Industry 4.0, sensors must perform high-speed measurements and provide high-precision results in order to ensure reliable quality assurance. In particular, optical measurement technology is becoming more important for production and inspection processes, as it is non-contact and independent of the target material and surface properties. This is a decisive advantage in a ‘live’ production process where tactile measurement technology is operating at its limits, particularly if the target is in a difficult-to-access area. Confocal chromatic sensors offer innovative technology, high speed and high precision.

The confocal chromatic measuring technique enables multi-layer thickness measurements of transparent materials, distance measurements, intensity evalu-



Fig. 1 In container glass production, wall thickness and roundness of the bottles are crucial quality features. This is why these parameters must be 100 % inspected.