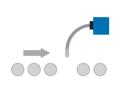
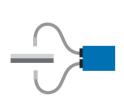
Applications

- Presence check of etiquettes in a bottling plant
- Presence check of wafers in a wafer baking systems after the decapper
- Coating inspection of primer (adhesion agent) in the quality assurance of automotive supplier
- Print mark detection for controlling the register controls, in banderoling machines, and in cutting tools
- Color inspection of taillight systems in final assembly
- Color inspection for assurance of color matching of enamel insets for washing basins
- Coating inspection of foam material on one side through color difference sensor, position detection is possible by means of differential principle
- Color inspection of belt buckle, belt and eyelet for color matching before final assembly
- Color inspection of PETbottle preforms in a bottling plant using through beam principle











Contact



ASTECH Angewandte Sensortechnik GmbH

Schonenfahrerstr. 5 18057 Rostock GERMANY



+49(0)381/44073-0



+49(0)381/44073-20



info@astech.de



www.astech.de

Contact person CROMLAVIEW® series

Dr. Gundolf Geske



+49(0)381/44073-17



+49(0)381/44073-20



g.geske@astech.de

Non-contact measurement with light



Color measurement

Advantages

The CROMLAVIEW® family consists of color sensors that processes colors in a perceptual way (i.e. according to human perception). They are suitable for industrial applications that demand high standards of the sensor technology. The integrated stabilization channel technology CROMLASTAB® ensures reliable operation during the whole life cycle and protects it from temperature drift as well. These qualities are underlined through the visible robustness of the housing.

High performance color sensors

- Finest color differences can be detected (ΔE < 1)
- Long-term stability of color recognition without new teach-in by CROMLASTAB®-technology
- Up to 350 colors can be stored
- Quick response time from 50 µs

Intuitive control concept

- Signal settings and teach-in of colors via buttons
- PC software CR-Tool for parameterization and validation of color recognition
- Easy adjustment to the recognition task through optical fibers and optics

Flexible integration through industrial interfaces

- Up to 12 channels, with binary encoding up to 4096 output combinations
- Push-pull-outputs (24 V / 100 mA)
- Standard interfaces: USB, RS232
- Optional fieldbus interfaces: Profibus DP, Fast Ethernet, CANopen
- Release of color recognition via trigger

Technical Data

	CR50	CR100	CR200	CR210	CR500
Sensing channels					ng channel, bilization channel
Distance compensation	no yes				yes
Color processing	perceptive				
Receiving detector	three range photo diode				
Sensitivity steps	20, 40, 80, 200	1, 4, 20	1, 4, 20, 40, 80, 200, 400, 800 fixed		
Light source 2)	power white	light LED, 1 W high-power white light I		LED, 4 W	
Ambient light compensation	permanent	Ca	an be switched off		permanent
Standard interfaces	4 switch outputs, 1 control input	4 switch outputs, 2 control inputs, serial (RS232)	12 switch outputs, 2 control inputs, serial (RS232), USB		,
Optional interfaces	- Profibus, Profinet, Ethernet				
Parameterization	3 button teach-in 3 button teach-in, Software CR-Tool				
Color resolution	$\Delta E_{Lab} < 1$				
Response time	10 ms, 1 ms	≥ 50 µs			≥ 250 µs
Color value memory cells	4	350		100	
Color output channels	4	4 (15 bin. cod.)	12 (350 bi	n. cod.)	12 (100 bin. cod.)
Protection class	IP 54				
Power supply	18 28 VDC, max. 500 mA				
Acceptable case temp.	-10 °C 55 °C				
Coupling in signal path	via optical fiber				
Fixed optic version	CR50-FO	CR100-FO		-	
Case size	50 mm × 50 mm × 21 mm		100 mm × 70 mm × 30 mm		
Weight	80 g		260	g	350 g

¹⁾ sensing channel 2 can be used for stabilization

²⁾ self shining objects can be measured by switching off the illumination