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SENSITIVE

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ASTECH
Angewandte Sensortechnik

New Series of Multifunctional High Performance Color Sensor with Field Bus Connectivity

SPS / IPC / DRIVES
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Booth 141, Hall 4A

With the color sensors of the CROMLAVIEW® series ASTECH for the first time introduces drift stabilized multifunctional high performance color sensors for a broad range of applications.

High Performance Color Sensors CROMLAVIEW CR200 and CR210

Natural Color Processing

By means of natural processing of the color values the models CR200 and CR210 are capable of recognizing colors just like the human eye. By this, the detection of smallest color differences and the natural evaluation of color distances are getting affordable for an industrial quality like automation. For this purpose, absolute color values or color differences can be stored and controlled depending on the type of sensor.

Sensing Channel Balance

For the application of the color difference mode, the matching and the ganging of the two sensing channels are essential. Therefore the balance method CROMLA-BALANCE ® is available. By this method, an easy and effective channel balance over the entire color space can be done.

Large Signal Range

Because of the diversity of available fiber optical cables, header optics and by an extensive accessory program, with the new sensors all but any application can be solved at which it is about reliable color recognition. In order to be able to adapt the sensors optimal to its case of application, the available signal range must be large. For this purpose the sensitivity is adjustable in 8 steps (1x … 800x). Furthermore the illumination intensity of the built-in high power LED can be regulated in 4096 steps.

High Processing Speed

Due to response times from 50 µs the sensors are also suitable for detection application with high speed requirements. For the output of the detection results both sensor types are provided with 12 switching outputs that can be freely programmed. In this way, in principle 4096 output states can be represented.

Effective Drift Stabilization

The new color sensors are characterized by the color value drift stabilization method CROMLASTAB ®. By this method, temperature and aging effects are compensated high effectively and permanently. This enables long term stable color detections for demanding application fields and avoids frequent re-calibrations of the sensors.

Easy Operation

The switching states of the 12 sensor outputs are signaled with corresponding LEDs. Four additional LEDs inform about operational states of the sensor. With the help of 3 illuminated buttons all frequently needed operation functions are accessible.
By the parameterization software “CR-Tool”, that is part of the standard scope of delivery, a comprehensive configuration of the color sensors is possible. All adjusted parameters can be stored in an external data file.

Field Bus Connectivity

Unique for color sensors are the built-in field bus interfaces. In addition to the standard interfaces RS232 und USB they are available for the two types CR200 and CR210. The digital input- and output signals and the color values are available on the bus. The user can choose between PROFIBUS, CANopen and Fast Ethernet. ■

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