

Color inspection of glossy objects

In practice, the reliable detection of the color of glossy objects usually is extremely difficult because the actual color information is mixed with direct reflection resulting from the gloss effect. A rich color thus is turned into a "soft" color, because the direct reflection of the color sensor's light source does not contain any color information. Red thus is recognised as pink, blue as bright blue, etc.

In the **SPECTRO-3-50-POL color sensor**, integrated polarisation filters prevent such direct reflection, the actual color thus can be clearly recognised and reliably detected.

Parameterisation of the sensor is considerably facilitated by the included SPECTRO3-Scope Windows® software. This software provides various evaluation modes, teach functions, and trigger possibilities. A detected color is output via 5 digital, npn- and pnp-capable outputs, and via a serial interface (RS232, USB and Ethernet). The switching frequency is approx. 30 kHz.

