



ColorSensor KCS8



**Industrial color control has never been this easy...
... for body colors, self luminous objects or both:**

- o LEDs
- o LCD displays
- o 7-segment displays
- o Monitors
- o ...
- o Paintwork
- o Printing
- o Textile colors
- o Plastics
- o ...
- o Reliable
- o True to perception
- o Easy to operate
- o Fast
- o ...

Intuitive operation and highly reliable.

The Krüss ColorSensor KCS8 judges color just like you do

The challenge:

Color is usually one of those essential features of a product that has to be „just right“.

A reliable method of checking and controlling the color of a product is needed. But when is a color „just right“ and who is the judge?

Ultimately, it is the consumer or product user who passes judgment on the quality of a color. Human color perception determines whether the color is „right“ or not. Given the fact, product manufacturers have been eager to find a way to accurately simulate the „visual impression“ of the human eye in industrial color control.

The solution

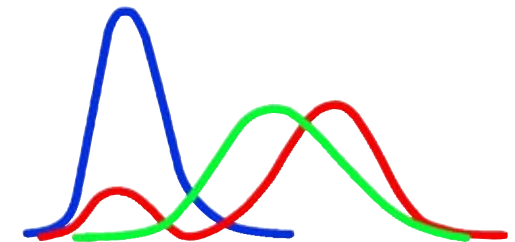
The Krüss Optronic perceptive color sensor KCS8 „recognizes“ color just like humans do, which means it possesses the same spectral sensitivity.

Thus, the sensor „perceives“ different shades of color in the same manner as the human eye. This feature is what sets the KCS8 apart from other color sensor systems, as the KCS8 can mimic the human eye when determining whether a color is „just right“.

In addition, operating the KCS8 is a snap. With values that are intuitively captured, the system’s color tolerance can be adjusted precisely to bring it in line with human perception. This is color control made fast, easy, and reliable.

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Perceptive Color Sensor KSC8 technical specifications



Device specifications

housing:	Aluminium blue anodized (LxWxH in mm) 71.5 x 35.0 x 35.2, 100g
Primary sensor:	Three range color photo diode, Typ MTCSi
Interfaces:	RS232, USB, 8 output ports
Power supply:	5...9V DC, max. 500mA
Signal Gain:	1, 5, 25, 100
Signal Conversion:	12 Bit
Color Resolution:	DE < 1
Ambient light comp.:	can be switched off for self shining-objects
Lighting (integrated):	White LED, 5500 K, Luminous flux min.18 lm

Color Processing

non self-shining objects:	CIE1931 XYZ, CIE1931 xyY, DIN6176 L99a99b99, CIE1976 L*a*b*, CIE1976 L*u*v*
self-shining objects:	CIE1931 XYZ, CIE1931 xyY, CIE1976 u'v'L*
operating modes:	color recognition, color specification, color sequence
color classes:	up to 255 colors

PC software: (sensor can also run without PC-software)

parameterizes the sensor, visualizes color signals in color diagrams, captures color patterns (teach in), color control and measurement, displays color values