

# VCS50 VeriColor solo

**BRAKENSIEK®**  
SYSTEMHAUS



VCS50 VeriColor® solo

- Communication via RS232 Serial port and discrete
- 8-pin input and output
- Storage of up to 30 standards
- User-friendly software

**Such a reliable and yet affordable tool for the Color can come only from the leading companies in the color science.**

Consistently consistent color is an integral component of the overall quality of a product. This is especially true for industrial production environments of today: Here is an efficient system to reduce chromatic aberration of crucial importance. VeriColor® Solo aufbewährter builds on technology from X-Rite®. Suppliers of automotive components, and the coatings, plastics, textile and other industries around the world rely on this technology, when it comes to identify colors in their industrial assembly and sorting operations.

### **Take control of your colors with VeriColor® Solo.**

High spectral resolution for more precise Colour identification

VeriColor solo recognizes more detailed color information than any other industrial sensor system. A full-spectrum lighting system detects subtle color differences on various surfaces and can not be misled by metamerism, ie situations in which different colors look under certain lighting conditions the same.

Non-contact measurement

VeriColor Solo is a non-contact measuring device when measuring different distances intermediate devices and objects as well as compensate for irregularities and bends can take into account the surface. Thanks to the contactless measurement method, the system is extremely flexible and practical. Therefore, it is ideal for use in extremely varied applications.

Unaffected by ambient light

With VeriColor solo work, you must not change the lighting and install any special sunscreen that protects the sensors of the system from ambient light. The system provides for all light conditions for precise, repeatable measurements.

Data storage for up to 30 active colors at once

VeriColor Solo can not only distinguish between thousands of colors, but also store information for up to 30 active colors at once. Hence, the Farbprogrammierung not be made again and again and users can check colors on an appropriate color palette of time.

Reliability in design and performance

VeriColor solo ensures a consistent level of performance without complex maintenance procedures and without constant readjustment. In order to prevent-the service should only Sen sorlinsen be kept clean.

Withstands harsh industrial conditions

VeriColor Solo is designed to heat, cold, to resist moisture, shock and contaminants, as they usually can occur in industrial environments.

Graphic tolerances

VeriColor solo offers an easily readable, clear graphical view of the findings. Tolerances that determine the applicability of color are represented graphically.

Optical color differences

VeriColor Solo offers intuitive color charts, which make possible a determination of color differences.

Log file access

VeriColor solo works with a log file that is designed to view and manage the measured data easily.

#### Standard actimetry

VeriColor Solo allows easy adjustment to the standard production after the initial setup. New measurements can be added at any time, hidden or deleted.

#### Easy setup

VeriColor Solo can be set up without any problem.

- Communication: RS232 and software-specific device.

- PLC interface: Basic requirements for the majority of the projects by specific inputs and outputs are provided, which simplifies programming considerably.

Alignment tool: This tool ensures the correct distance and angle of the sensor to the DUT.

#### Technical data

##### General

##### Types of instruments:

High-resolution, reflective color

##### Geometry:

0 ° / 30 ° or 30 ° / 0 ° (details below to 30 ° / 0 ° base)

##### Range:

12 mm

##### Difference in color resolution:

0.25  $\Delta E_{LED}$ , typical ( $\Delta E_{LED}$  is an internal Farbunterschiedsberechnung, based on the VeriColor LED color reaction and in the scaling of small color differences  $\Delta E_{*}^{*} CIE$  is similar.)

##### Operating temperature:

00-50 ° C

##### Moisture level:

00-90% non-condensing

##### Umschließungsvorgabe:

Analog NEMA 4/IP56

##### Dimensions:

L: 13 cm, W: 7.4 cm, H: 3.3 cm

##### Weight:

347 g

##### Power supply:

24 V DC  $\pm$  10% at 250 mA max.

#### Performance

##### Black and reproducibility:

0.3  $\Delta E_{LED}$  00-40 ° C1

(10 measurements to 3-second intervals on  
1% reflective black)

White Reproducibility:

0.1  $\Delta E_{LED}$  00-40 ° C 1

(10 measurements to 3-second intervals on  
99% reflective white)

Measuring distance:

35 mm  $\pm$  5 mm

Measurement time:

250 ms

Time Clock:

1 sec (interval between measurement runs)

Warm up time:

30 sec typical at 23 ° C

Calibration:

Review recommended - 90 days / 0.5 million readouts

(Whichever comes first). More frequent inspections are necessary  
required if the system does not suitably clean  
is held.

Lifetime of LED lamp:

Life of the unit

Product life:

at least five years

Vibration:

5 to 10 Hz 0.200 "displacement peak - peak

10 -100 Hz at 1 G

Shock:

Serviceable at amplitudes of 15 g and a duration

18 ms

Inoperable g at amplitudes of 30 and

a duration of 11 ms

Environment

Use:

Only in enclosed spaces

Height:

to 2000 m

Air pollution:

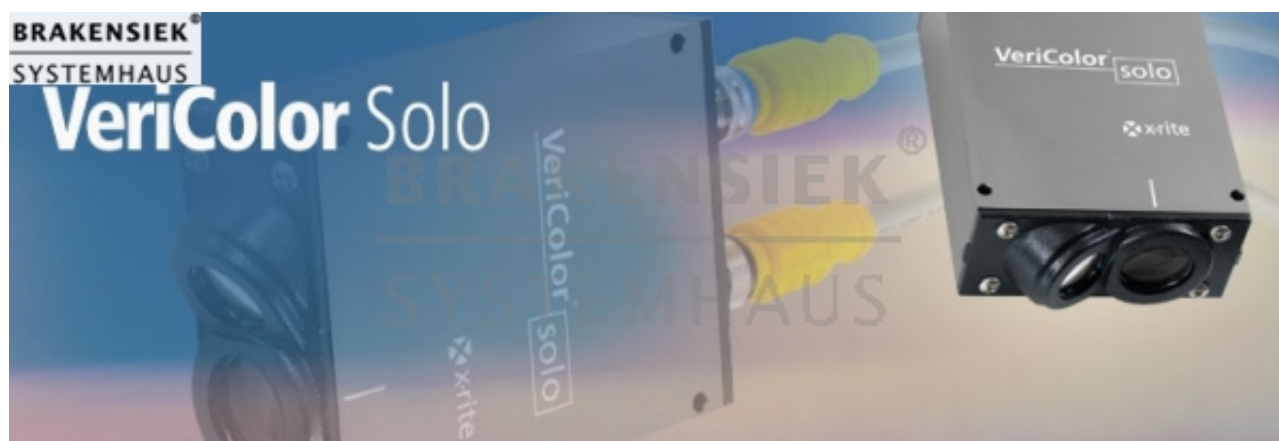
Grade 2

Voltage:

Category II

Security target

Underwriters Laboratories UL 61010-1  
Canadian Standards Assn. CSA 22.2 No. 1010.1-92  
International Electrotechnical  
Committee IEC (EN) 61010-1



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