The X5 Colour Sensor

For accurate continuous on-line colour measurement.

Industries

The X5 can be used in any industry where colour is important as a product enhancer or as a process control indicator.
Like: Food, paper, plastics, textile, paint, glass, packaging, tobacco, ceramics, building materials, pharmaceutical, and more...

Benefits

Guarantee your customers a high and **constant colour quality**.
-**Reduce waste** by fast colour feedback, for process control.
-**Reproduce** the same batch colour months later by saving settings.
-Log production data to a PC for customer **quality reports**.
-No more **human errors** during visual inspection.

The X5 Colour Sensor

The X5 Colour Sensor is a stable and accurate industrial colour measuring system, intended for online colour quality control.

It can measure continues processes or spaced objects by using a trigger input.

The system can be used to measure liquids, at high or low temperatures, electro static environments, etc.. Places other colour sensors won't last.

The sensors modular setup provides solutions for a wide range of applications. For example:
•Optimisation of distance from substrate and area of measurement.
• Adjustment of measurement angle to accommodate gloss and texture.
• Fiber optic modules for transmission measurement of transparent, semi transparent and liquid materials
• The X5 can be controlled stand alone by the membrane keyboard on the sensor itself.
• Multiple sensors can be linked and controlled from one central PC by use of ethernet, allowing inspections at various positions in the process.

Various digital in- and outputs and ethernet make it easy to connect the system to external hardware like a PLC or PC.

The windows based **software** can be used in two ways.
1. to configure the colour sensor for stand alone use.
2.Leave the PC connected to visually monitor and log colour information.

The software can store system settings in a database for later retrieval to guarantee your customers a constant colour quality.

Technical specifications

Measurement accuracy:
7 days: <0.5 dE* units without calibration
(Using gray tile, 45degree, 20mm measure area)

Communication:
5 Digital outputs (of which one trigger input for fast spaced object measurement)
2 Digital inputs
1 Ethernet port

Physical:
Width: 225mm
Height: 170mm
Dept: 65mm
Weight: 2.5Kg

Optical:
Measure area: depending on optics, 20..100mm diameter
Measure distance: depending on optics, 20..100mm
Measure angle: depending model, typical 45º
Light source: LED (5000 burning hours)

Miscellaneous:
Power 12-24VDC (<2Amp.)
Operating temperature 0º - 45º Celsius
IP67 (Dust proof, protected from temporary immersion in water)

Specifications subject to change without notice.