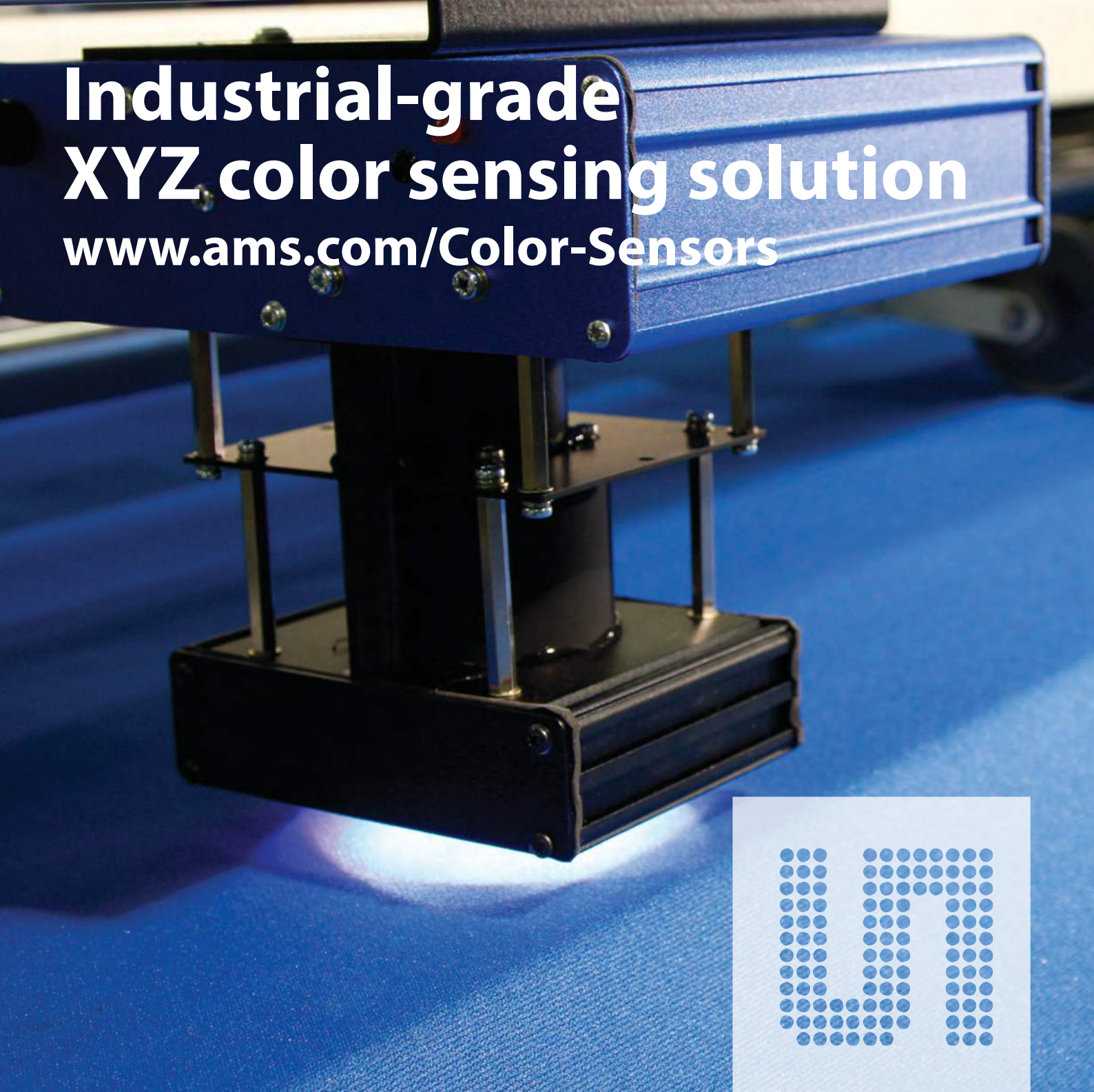


Industrial-grade XYZ color sensing solution

www.ams.com/Color-Sensors



AS73210 – JENCOLOR® Analog XYZ Color Sensor with large detector area

- No aging of the filter, UV resistant
- High temperature stability up to 100°C
- High speed measurement in combination AS89000 or AS89020
- Minimal cross talk, smooth filter curves due to filter on glass technology
- High sensitiveness through large area diode

Sensing
is life.

General Description

The AS73210 is a True Color Sensor with a filter function based on the color standard CIE 1931/DIN 5033 (human eye perception) in a compact QFN16 package. The AS73210 is long-term stable over the entire product lifetime and resistant to external influences such as temperature or aging drifts, due to the special JENCOLOR® interference filter technology. The JENCOLOR® sensors are made of 19x3 photodiodes integrated on-chip

(special pin silicon technology with advanced sensitivity). The diodes are aligned as segments of a multiple-element hexagonal matrix structure with the diameter of 2 mm. The design as Si-PIN photodiodes allows signal frequencies up to the upper kHz-range. In order to achieve minimal cross talk between the photodiodes the individual sectors are separated from each other by additional structures.

Benefits

- High transmission and blocking interference filters
- No aging of the filter, UV resistant
- High temperature stability up to 100°C
- High signal frequency up to 340 kHz in combination with AS89020
- Minimal cross talk, smooth filter curves due to patented filter on glass technology
- High sensitiveness through large area diode (diameter of the optical sensitive surface approx. 2mm)

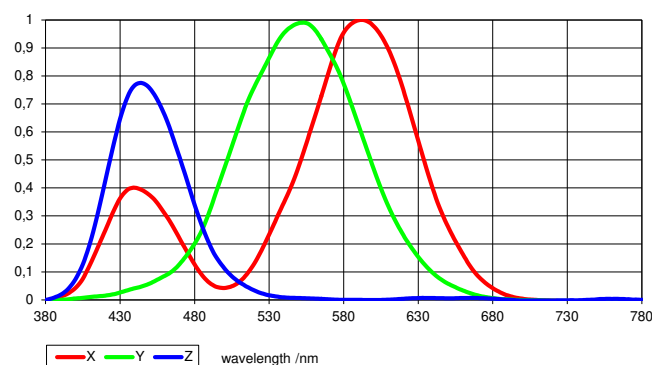
Applications

- Inline + offline color matching for industrial applications
- Active feedback control for LED lighting
- Inline manufacturing and process control
- Auto-calibration of displays & monitors
- Ambient light and color metering

Features

- JENCOLOR® interference filter characteristic based on CIE 1931/ DIN5033
- Analog output
- Compatible with analog and digital converters
 - AS89000 high speed analog output
 - AS89010 high resolution digital output
 - AS89020 high speed digital output
- QFN16-package in size 4x4 mm

Spectral Responsibility



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 products@ams.com
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 Subject to change without notice

Headquarters
ams AG
Tobelbader Strasse 30, 8141 Premstaetten, Austria
Phone +43 3136 500-0



Sales Offices Worldwide
sales-europe@ams.com
sales-asia@ams.com
sales-americas@ams.com