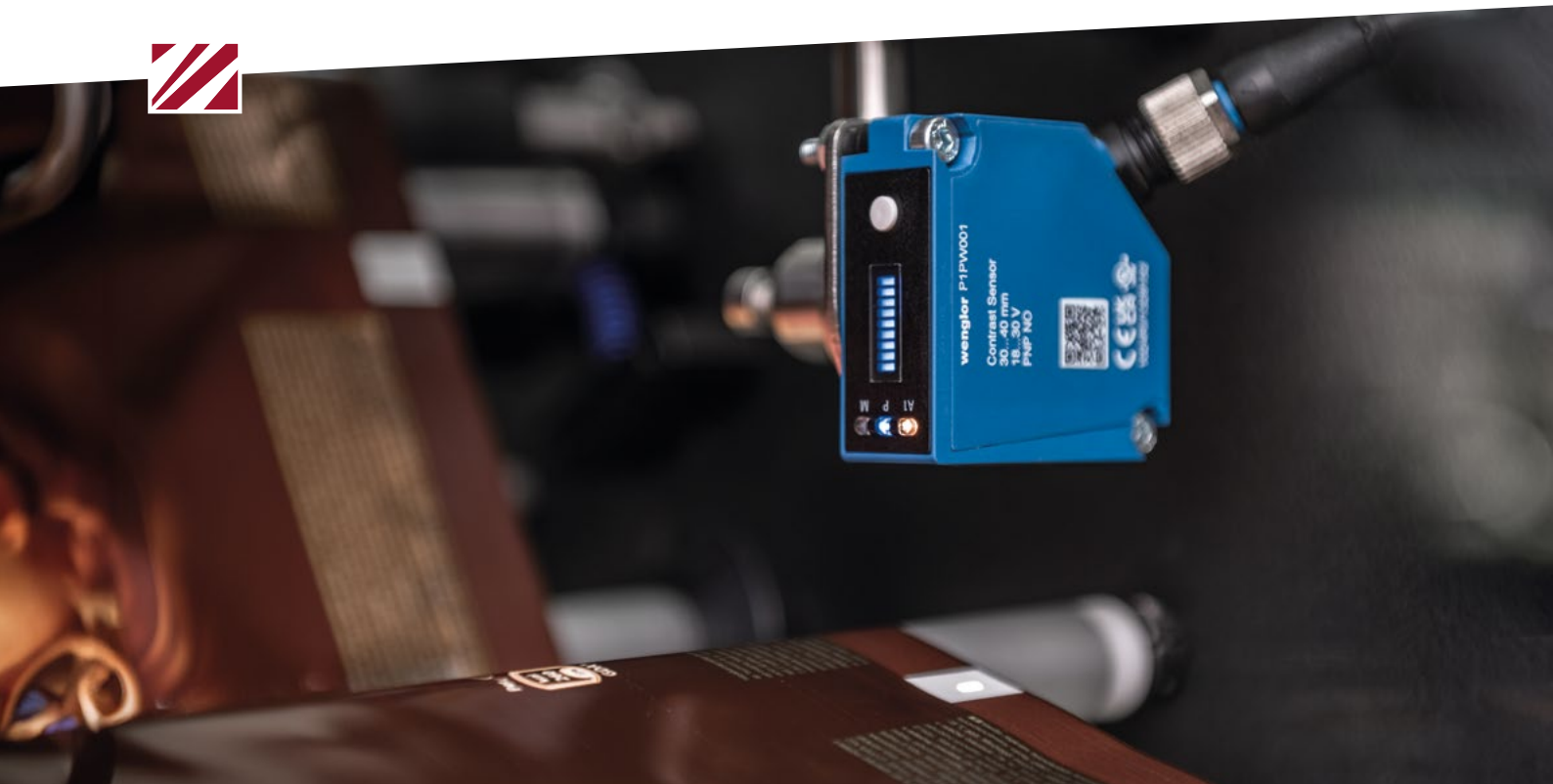


Reliable Detection of the Lowest Contrasts

P1PW Contrast Sensors



Maximum Flexibility with the P1PW Contrast Sensors

Three integrated operating modes enable the P1PW sensors to be used variably as print mark readers, contrast sensors and for detecting color differences. A job memory ensures quick batch changes so that no individual settings are required during operation.



Print Mark Mode

Reliable distinction between brand and background by using the largest contrast difference of a color channel



Contrast Mode

Detection of the smallest contrast differences through evaluation of the average light intensity of all color channels



Color Mode

Reliable detection of color differences by using the signal values of all color channels





Highlights of the P1PW Contrast Sensors



Integrated Jump Detection for Dynamic Processes

Stable detection of contrast differences is possible independently without the need for re-parametrization in the ongoing process.



High Switching Frequency of 50 KHz

Even dynamic applications with very high process speeds are reliably implemented thanks to the high switching frequency and low jitter.



Reliable Detection of High Gloss Surfaces

Automatic adjustment of the light intensity ensures precise detection of a wide range of surfaces.



Detection of Very Small Objects

The emission of the homogeneous and rectangular light spot as clearly visible white light ensures detection of even the smallest objects.

Reliable Detection of Contrast Marks

Contrast sensors detect contrast and color differences on a wide range of materials and surfaces. Thanks to technologies with LED white light or laser red light, precise position detection of contrast marks is possible even at high machine speeds.



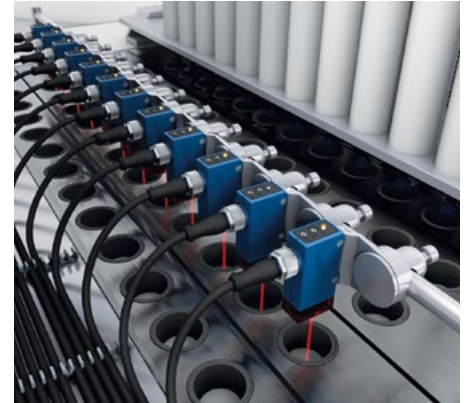
► **Print mark recognition** to control various processes such as the alignment and positioning of objects or cutting, welding and gluing processes.



▼ **Check the material end** via visual marks, for example to initiate a timely roll change of film material.



▼ **Color control of objects** for quality control based on visual appearance characteristics.







▼ **Detect contrast differences** to distinguish or check the presence of objects.



You can find all the details and even more about contrast applications on our website.



Product Overview

| Product | Format | Light source | Detection range/ working range | Switching frequency | Output |
|--|-----------------------|--------------|-----------------------------------|------------------------|-------------------------------|
|  YM24 | 54.5 × 27 × 16 mm (M) | Laser (red) | 150 mm | 3 kHz | Antivalent |
|  YP11 | 50 × 50 × 20 mm (P) | Laser (red) | 100 mm | 20 kHz 10 kHz | Antivalent Analog 0...10 V |
|  WM03 | 54.5 × 27 × 16 mm (M) | White light | 12...18 mm | 5 kHz | Switchable to NC or NO |
|  P1PW | 50 × 50 × 20 mm (1P) | White light | 30...40 mm | 50 kHz | Antivalent |





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