MLG-2 WebChecker and AS30
RELIABLE EDGE DETECTION

Sensors for web edge guiding

SICK
Sensor Intelligence.

Whether paper, nonwoven fabrics, bandages, plastic, rubber, aluminum or iron, the range of wound goods is incredibly diverse and their mechanical production and processing in the form of web material therefore call for processes with a high level of directional stability and positional accuracy in almost all applications. SICK contrast and array sensors as well as measuring light grids for detecting edges and marks deliver the information required by position detection and overrun control systems to reliably monitor transport, winding and processing operations and identify errors at an early stage.

AS30 array sensors do so using the proximity scanning principle, and sometimes also a reflector background. They use a line of light to reliably detect even the finest of edges of transparent or opaque materials based on very small grayscale differences and with a repeatability of up to 30 µm. The AS30 detects and measures the unwound edge as a contrast variation and outputs the position value

via IO-Link or an analog output. The detection can occur either by means of the edge of the web or an optical line or marking on the material. The AS30 has a reading field of up to 50 mm, depending on the variant.

Users wanting to implement width or center measurement over a larger width of up to 3,150 mm will find just what they are looking for in the MLG-2 WebChecker. Features such as the patented cross beam technology as well as light intensity measurement and individual evaluation of up to every 500 beams of the measuring light grid produce an accuracy of ± 0.3 mm and resolution of 0.1 mm per web edge, thereby ensuring highly precise measurement of the entire web width. At the same time, the MLG-2 WebChecker generates position information for both web edges. If these move out of the specified target positions, this is output to the machine controller via switching outputs of the light grid.

MLG-2 WebChecker – Maximum precision for web width measurement

IO-Link

At a glance

- Measurement accuracy: 0.3 mm per edge
- Resolution: 0.1 mm
- Measuring field: 3,150 mm (in 150 mm steps)
- Response time: 32 µs

- Interfaces: 3 x Q, IO-Link, RS-485
- Operating range: 2,500 mm
- Interface output: 10 edges with 5 edges and 5 center positions

Your benefits

- Edge position detection for webs of 145 mm to 3,200 mm with a measurement accuracy of 0.3 mm – for machines with maximum performance
- Easy format change with flexible web width measurement increases customer satisfaction

- The MLG-2 WebChecker measures 5 webs at a time, therefore reducing the number of sensors in the application
- Modern Ethernet interfaces for quick, reliable data transmission increases system availability
- Prevention of errors and reduced downtime during format change

➜ www.sick.com/MLG-2_WebChecker

AS30 – More flexibility and efficient communication

IO-Link

At a glance

- Teach-in of selected edges possible
- Full color TFT display
- Various operating modes for different applications
- Core and Prime variant for different fields of application

- Large measuring range of up to 50 mm
- Sensing distance of 25 mm or 100 mm
- Repeatability of up to 30 µm

Your benefits

- Higher reliability and more stable processes thanks to teach-in of contrast edges
- TFT display for flexible configuration options and easy commissioning
- Various operating modes provide the right defaults for every application
- High repeatability of up to 30 µm

- No fine positioning of the sensor required thanks to the large field of view of up to 50 mm
- IO-Link and the SOPAS ET software ensure easy configuration
- Efficient communication and predictive maintenance through smart sensor functionality

➜ www.sick.com/AS30

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