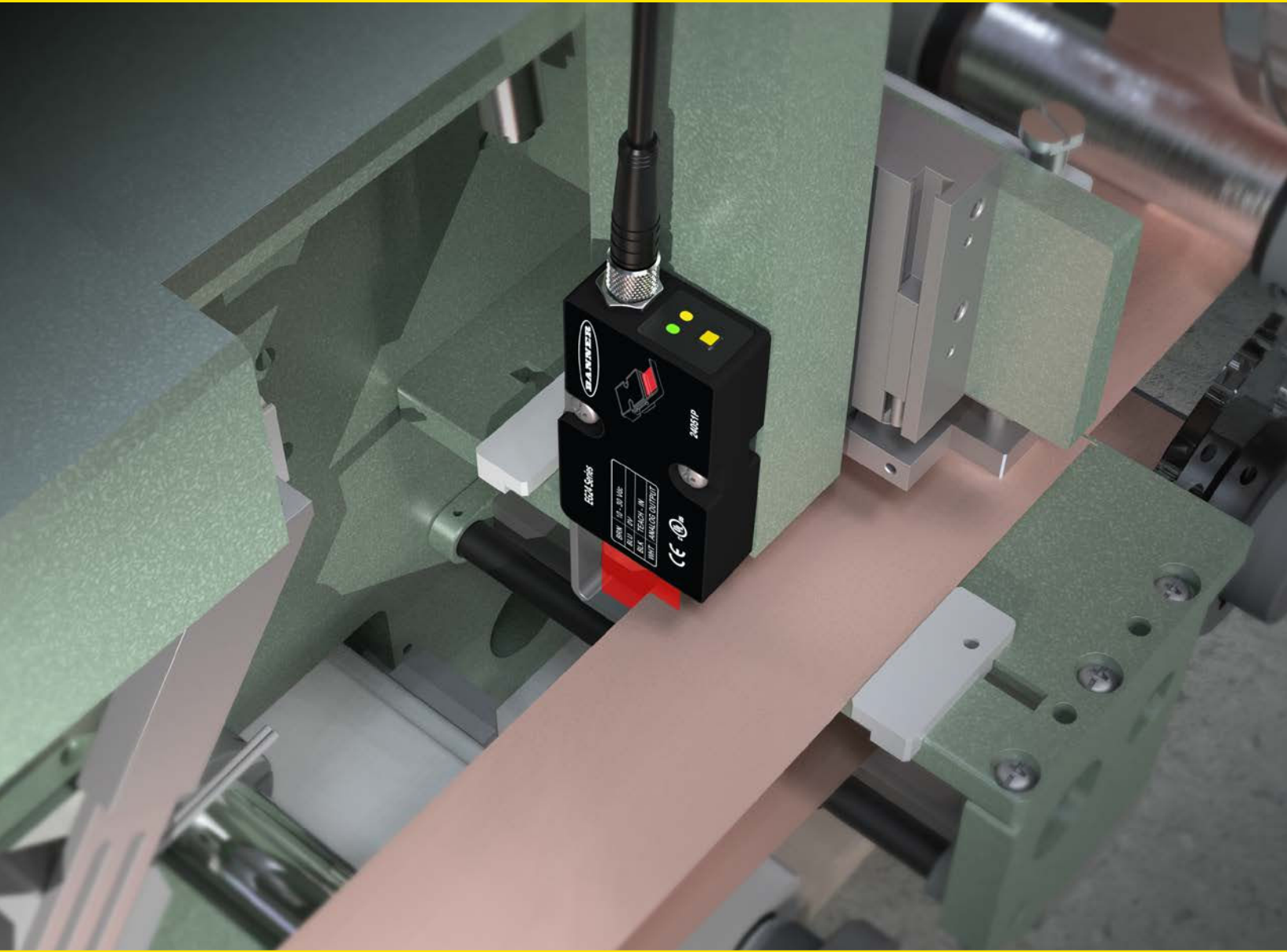


EG24 Precision Edge Sensors



Precision Edge Sensor Improves Quality and Yield

- High-resolution measurement ensures material is properly positioned to avoid scrap
- Retroreflective sensor's wide sensing beam delivers precision measurement over a large area
- A selection of measurement modes precisely track edges across a broad variety of moving materials, including a wide range of opacity and texture

Measure Moving Materials Consistently and Reliably

High-Resolution Sensing

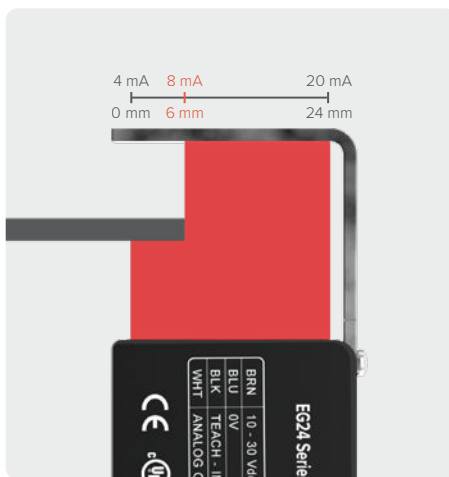
- Less than 10-micron resolution precisely monitors edge movement to maximize process control and reduce wasted material
- 2 kHz measurement frequency rapidly measures edge location, enabling quick corrections to material position

Wide Retroreflective Sensing Area

- 40-millimeter sensing range measures with the same resolution at any distance, allowing for edge movement between the sensor face and reflector
- 24-millimeter wide beam allows for variation in target presentation, which reduces fixturing complexity

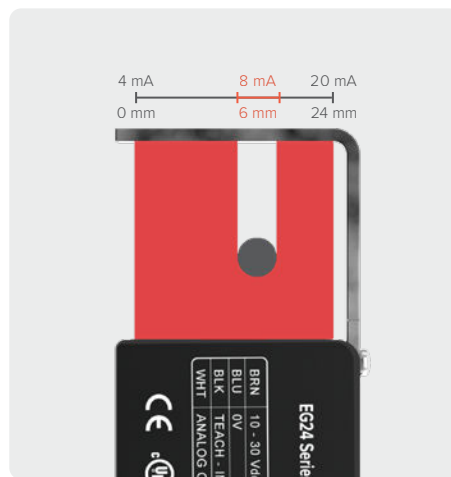
Sensing Modes for Application Flexibility

- Single Edge for tracking and positioning of web and sheet edges with materials such as foils, films, metals, plastics, or paper
- Width or Gap for confirming quality of a product or in process dimension verification



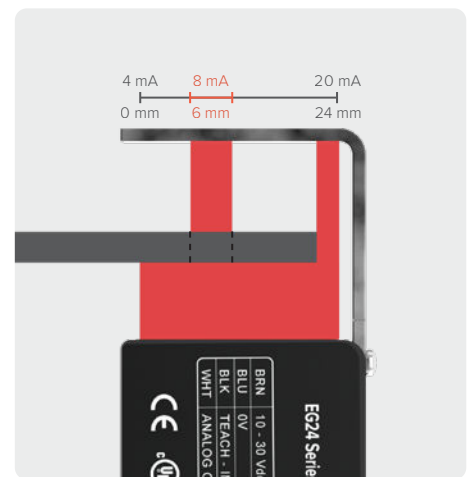
Single Edge Tracking

For tracking and positioning of web and sheet edges with materials such as foils, films, metals, plastics, or paper



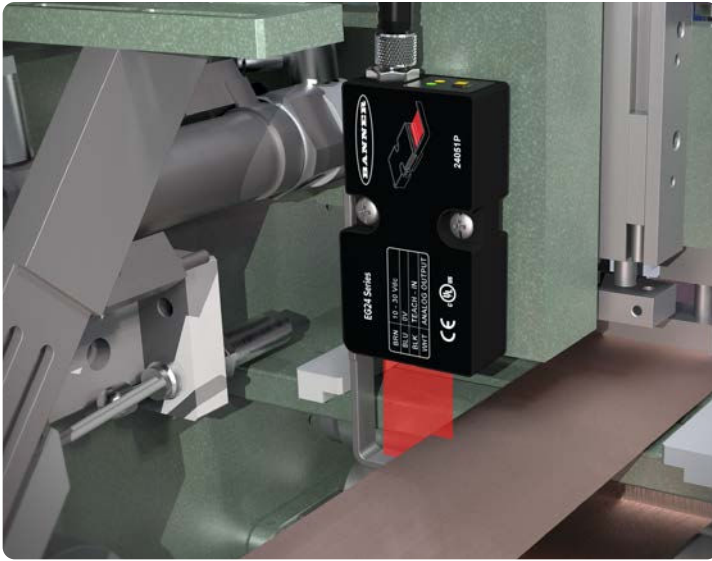
Width Mode

For confirming quality of a product or in process dimension verification



Gap Mode

For confirming quality of a product or in process dimension verification



Precise Material Position Measurement Minimizes Waste in EV Battery Manufacturing

Challenge

The EV battery manufacturing process uses several thin films, foils, or other material sheets on rolls. The order and alignment of each material are critical. There are several different points in the process that the sheets are combined in precise layering applications. These films are very expensive, so any misalignment can result in wasted material, wasted machine time, and increased related costs.

Solution

- The EG24 accurately tracks the sheet edge anywhere in the measuring field regardless of color or opacity
- The 10-micron resolution provides data for precise positioning, preventing waste during cutting, layering, and alignment applications

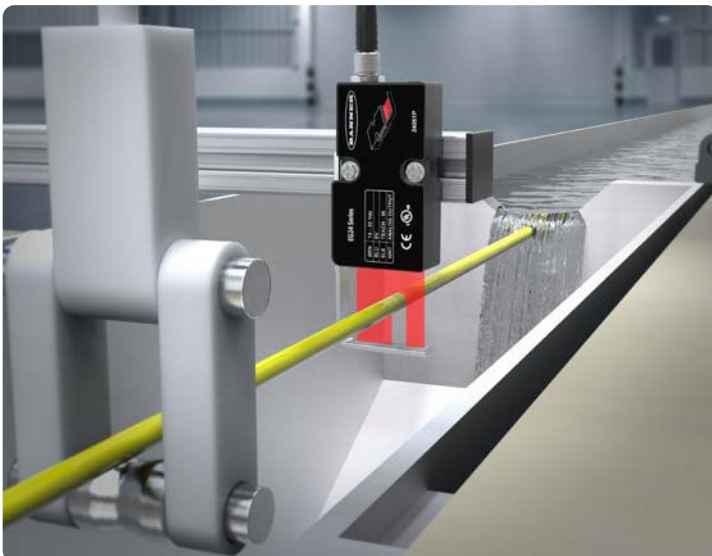
Web Position Monitoring Reduces Downtime and Scrap in Bubble Mailer Manufacturing

Challenge

Bubble mailer machines combine multiple webs of paper and plastic materials to create padded envelopes at high speeds. These webs must be precisely aligned when laminating layers together or envelopes will be formed incorrectly, resulting in wasted material.

Solution

- The EG24 constantly monitors the position of the webs
- If material begins to drift, the EG24 can signal the web guide system to correct this, ensuring the layers are properly aligned before lamination



Width Mode Ensures Quality and Process Verification in Wire Coating

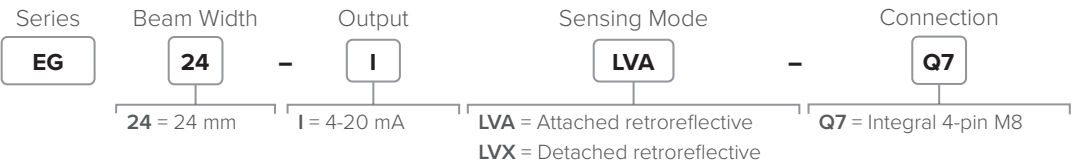
Challenge

Bare wires can be covered with a protective plastic coating. This coating should be uniform when a cooled strand exits the coating process. Any crimps or bulges in the coating can result in product that is out of specifications and cause problems in later processes.

Solution

- The EG24 can precisely measure the width of the wire to confirm it is within the manufacturer's specifications
- The 24 mm wide beam and 40 mm range can precisely measure and detect anywhere in the sensing beam, even if the wire is moving around
- Final product quality can be verified, ensuring uniform width with no crimps, breaks, or excess coating accumulation

EG24 Precision Edge Sensors




Specifications




Supply Voltage	10 to 30 V DC
Measuring Field Size	24 mm
Range	0 to 40 mm
Resolution	<0.01 mm
Construction	Die cast zinc
Operating Conditions	-0 to +55 °C (-32 to +131 °F)
Environmental Rating	IP67
Certifications	CE, UL LISTED

Accessories



4-Pin M8 Connector
Straight connector models listed

BC-M8F4-24-2
2 m (6.5')
BC-M8F4-24-5
5 m (16.5')
BC-M8F4-24-10
10 m (32.9')



4-Pin M8 Connector
Right-angle connector models listed

PKW4Z-2
2 m (6.5')
PKW4Z-5
5 m (16.5')

