

## EL.SPLICE

Erhardt+Leimer Length Measurement  
System for the Tire and Rubber Industry

### Splice overlap length measurement

Today's tire manufacturers are confronted with ever-increasing demands. Production speeds are to increase continuously, quality must be assured and rejects and machine downtime must be reduced to a minimum.

Erhardt+Leimer is the ideal partner for you if you want to ensure excellent production quality and make optimum use of your resources. We give you the right tools to make your manufacturing process more robust and reliable: fast detection of defects and continuous development of innovative solutions.

EL.SPLICE uses laser distance sensors to monitor the behavior of overlapping rubber strips that are stuck together. This measurement system always consists of a pair of sensors: One above and the other below the material. These overlap areas are measured lengthwise by one, two, or three measuring systems in a gap between two conveyor belts.



# Precise overlap measurement

## Easy to integrate into the production line

- Compact sensor design
- Mounting mechanism/bracket for easy integration into the machine

## Easy operation, setup and quality control

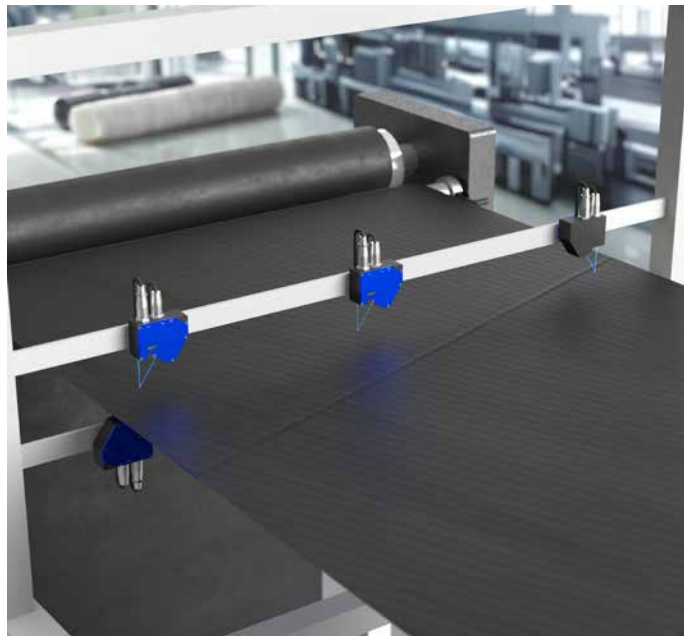
- User-friendly interface for commissioning
- Monitoring of overlap, thickness, and angle at up to 3 measuring points with up to 30 kHz scan frequency

## Maintenance-free and remotely controllable

All components are Ethernet-based and can be remotely accessed for servicing

## Field of Application

The application is typically used in a cutting line, directly after the splice table. The overlap is measured there to give the customer the possibility to optimize the production process.



Technical data	
Measuring points	Up to 3
Sensor type	Point laser distance sensor
Laser class	2
Wavelength	658 nm
Measuring distance	40 mm to 60 mm
Measuring range thickness	30 mm
Resolution vertical	0.05 mm
Linearity	± 0.010 mm
Accuracy (splice length)	± 0.1 mm
Accuracy (thickness)	± 0.1 mm
Accuracy (angle)	± 1°
Minimum step height	0.4 mm
Measuring rate	Up to 30 kHz
Operating voltage	Nominal value 24 V DC
Nominal range	20 to 30 V DC
Protection class	IP 54 (when connected)
Ambient temperature	+10 °C to +40 °C