

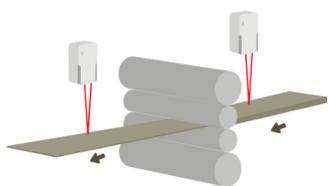
The non-contact speed and length gauge for industry

Suitable for all in-process applications

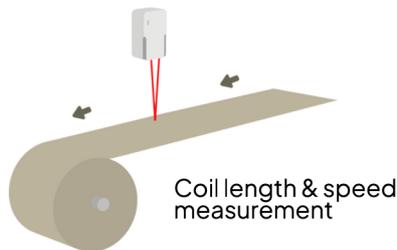
World's best accuracy
<±0.03%

LaserSpeed has become synonymous with global leadership in length and speed measurement and has set the standard for accuracy and reliability for measurement.

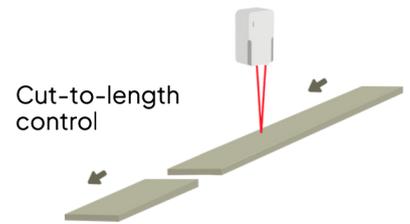
Suitable applications include cable, wire, extrusion, non-wovens, mineral wool, wood-based panels, plastic films, papers and converting applications and various laminated materials.



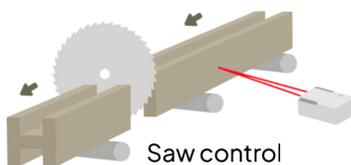
Differential speed measurement



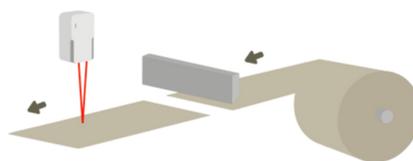
Coil length & speed measurement



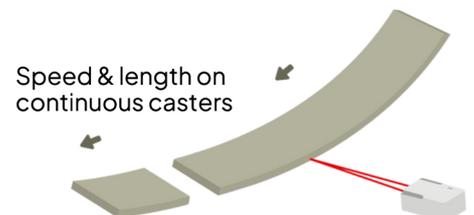
Cut-to-length control



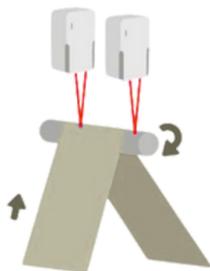
Saw control



Part length measurement



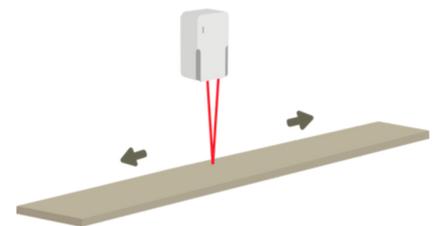
Speed & length on continuous casters



Machine speed calibration



Speed matching



Forward/reverse positioning applications



LaserSpeed solution

LaserSpeed Pro provides a non-contact method to measure process speed and length and is a direct replacement of existing contact rollers and rotary encoders to improve accuracy and reliability of in-process measurement. A wide range of products, accessories and options are available making suitable for all applications found within industry.



LaserSpeed Pro Gauge

Most accurate gauge available today

The LaserSpeed Pro models are the most accurate gauges available on the market today delivering an accuracy of better than $\pm 0.03\%$ and repeatability of $\pm 0.02\%$ on any material irrespective of the surface properties.

Industry 4.0 connectivity

Quadrature pulse output 1 - 250kHz max	Modbus TCP
Quadrature pulse output 2 - 5 MHz max	EtherNet/IP
Serial RS232 - speed, length QF & Status	Profinet I/O
Serial RS432 - speed, length QF & Status	ProfiBus DP
Ethernet UDP/TCP/IP - speed, length QF & Status	SSI
Analogue 0-2V - Speed or QF or Temp	

Benefits of LaserSpeed

- ◆ Improves accuracy and repeatability compared with encoders
- ◆ No moving parts to wear out
- ◆ Measures accurately on all surfaces

Specification

LaserSpeed model	Stand off (mm)	Depth of field (mm)	Speed range (m/min)
LS4500-401	100	15	0.2 - 1700
LS4500-403 LS8500-403 LS9500-403	300	35	0.4 - 4000 0.4 - 4000 0... \pm 4000
LS4500-406 LS8500-406 LS9500-406	600	50	0.8 - 8000 0.8 - 8000 0... \pm 8000
LS4500-410 LS9500-410	1000	100	1.0 - 12000 0... \pm 12000

	LS4500	LS8500	LS9500
Measurement rate (Hz)	20000	50000	10000
Measures zero speed	No	No	Yes
Detects direction	No	No	Yes
Starting/ending length correction	No	Yes	Yes
Internal material present	No	Yes	Yes

Accuracy: $<\pm 0.03\%$ of reading

Repeatability: $\pm 0.02\%$

Measuring rate: LS8500: 50,000/sec

Measuring rate: LS9500: 100,000/sec

Protection class: IP67

Laser class: 3B

