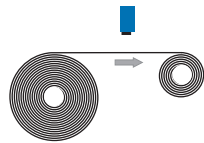
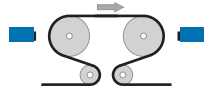


Applications

- Recoiling lines for metal strips, paper, textiles or non-wovens
- Tube inspection lines
- Length measurement of pre-cut tubes, profiles or plates
- Slitting lines
- Inspection lines
- Coating plants
- Cold rolling mills
- Hot rolling mills
- Wire mills
- Tube production
- Cut-to-length control for flying saws
- Mass-flow-measurement
- Plate mill and slab finishing lines
- Speed measurement on abrasive materials
- Process control



Contact

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Contact person VLM series

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Non-contact measurement with light

VLM500
5 Years
Warranty



Measurement of
velocity and length

Advantages

Based on a CCD sensor the VLM500 implements the spatial filter technology for the optical determination of velocity and length of moving objects. The VLM500 works optically and contactless.

Dynamic and accurate

- Measuring range up to 50 m/s
- Accuracy < 0.025 %

Contactless and harmless

- Working distance 170 mm, 185 mm or 240 mm
- No slip
- No damage/contamination of measured object surface
- No dangerous laser radiation

Robust and reliable

- Rugged design for reliable use in harsh industry environments
- Immune to dirt and dust

Flexible and versatile

- Comprehensive parameterization for flexible operation
- Independent from object surface properties
- Versatile industrial interfaces
- Synchronous triggering of multiple gauges for mass-flow applications

Autonomic and easy-to-use

- Automatic adaption to properties of object surface
- Integrated sensor, lighting, optics, signal processing and interfaces – no external components
- Easy integration into existing processes and plants
- Easy mechanical installation
- No wear and free of maintenances

High Quality and cost-efficient

- Calibrated for lifetime
- 5 years warranty
- Made in Germany
- Expected lifetime > 20 years

Technical Data

	VLM500A	VLM500D	VLM500L
Nominal distance and working range	(185 ± 7.5) mm	(240 ± 15) mm	(170 ± 7.5) mm
Extended working range	(185 ± 15) mm	(240 ± 30) mm	(170 ± 10) mm
Speed measuring range	0.01 ... 25 m/s	0.008 ... 15 m/s	0.004 ... 3.0 m/s
– with extended working range	0.02 ... 50 m/s	0.016 ... 30 m/s	0.008 ... 6.0 m/s
– with special filter FB2V	0.006 ... 3.5 m/s	0.005 ... 3 m/s	0.001 ... 1.5 m/s
– in extended working range and FB2V	0.012 ... 7 m/s	0.012 ... 5.5 m/s	0.002 ... 3 m/s
Measuring uncertainty ¹⁾	< 0.025 % at nominal working distance ^{2), 3)}		
Reproducibility ¹⁾	< 0.025 %		
Length measuring range	internal measuring range up to 1,000,000 km		
Detector	CCD sensor/spatial filter		
Light source	LED		
Power supply	24 VDC		
Power consumption	max. 25 W		
Temperature range	0 °C ... 50 °C		
Protection class	IP 65		
EMC	Industrial standard in compliance with CE		
Case size without connectors	260 mm x 160 mm x 90 mm ²⁾		
Weight	3.3 kg		

¹⁾ DIN 1319 / ISO 3534, related to measured length
test conditions: measuring length 10 m, constant conditions in: temperature (20 °C), distance, velocity, illumination

²⁾ depending on the version and configuration

³⁾ < 0,05 % within the working distance range and
< 0,2 % within the extended working range