

# LM SMART

Smart length measurement rethought

The LM SMART measures lengths without contact and with an extraordinary accuracy of 0.05 %. Compared to conventional contact-based solutions, there is no slippage or wear. Once the device has been set up, no calibration or re-parameterization is required. The LM SMART measures accurately and reliably over time.

## Benefit from the exact length

Length measuring devices are used to ensure that the required product length is accurate. Short or excess length leads to yield losses. If the production length is reduced by just 0.1 %, the LM SMART length measuring device pays for itself in just a few months.

## Function: so simple and smart

The LM SMART is based on the market-proven laser doppler measuring method and therefore functions largely independent of the color, surface quality and diameter of the product. Two laser beams are used to direct light onto the passing product surface. The beams overlap and create a stripe pattern on the object, from which the speed and thus the product length traveled over time is precisely determined.

## Typical features of the LM SMART:

- Laser protection class 3B (laser protection class 1 optional)
- Comfort stand (optional) for easy set-up and adjustment
- ECOCONTROL display unit (optional) provides a clear display of the produced length and line speed
- Direction recognition via system signal

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<b>Speed range</b>	2 – 2,400 m/min (different sensor types)
<b>Typical repeatability</b>	± 0,02 %
<b>Typical accuracy</b>	± 0,05 %
<b>Operating distance</b>	120 mm
<b>Operating distance tolerance</b>	up to ± 20 mm (± 5 mm at full accuracy)
<b>Direction recognition</b>	via external signal
<b>Laser</b>	Laser class 3B (25 mW, 780 nm)
<b>Interfaces</b>	Pulse output, industrial fieldbus (Profinet IO, EtherNet/IP, Profibus-DP)
<b>Power supply (interface box)</b>	100-240 V AC ± 10%   50/60 Hz
<b>Dimensions (LxWxH)</b>	154 x 94 x 41 mm