

# Press Release

Date: January 2011  
Enclosure: LSV\_1000\_ART\_converting.jpg  
Reference: PR-0031-FKAP-160211-LSVE

## Laser Speed and Length Measurement for the Converting Industry

***Polytec Laser Surface Velocimeters help to increase productivity and quality.***

Optimized production processes with increased yield and quality and minimized scrap and costs is one of the mayor issues to stay competitive in the global business of our days. A precise determination of process and material parameters as speed and length is crucial to achieve these goals in the production and processing of any continuous material in the converting industry .

Traditionally the speed and length of goods as e.g. film, foil, sheet material, paper, wovens and non-wovens are measured with contact wheels. In spite of the wide distribution of these sensors this approach has several disadvantages due to the direct contact between sensor and material in this method. Slippage between the measurement wheel and the material may lead to increased measurement error and a possible change of the wheels radius due to wear or due to accumulated product material demands for a frequent recalibration with associated downtimes of the process. A laser speed and length measurement avoids these drawbacks by its non-contact nature. Optical laser sensors of the Polytec LSV Series can be integrated easily in the production process and provide precise data for speed control, cut-to-length, length measurement, elongation ratio measurement (stretch or draw) and other quality control applications. With a measurement uncertainty of 0.05% and better product waste is minimized since exactly the required length of material can be produced. Fast sensor response and high data rates enable sophisticated control applications. As additional benefit the optical sensor has no need for frequent recalibration and service issues thus

Publication free of charge

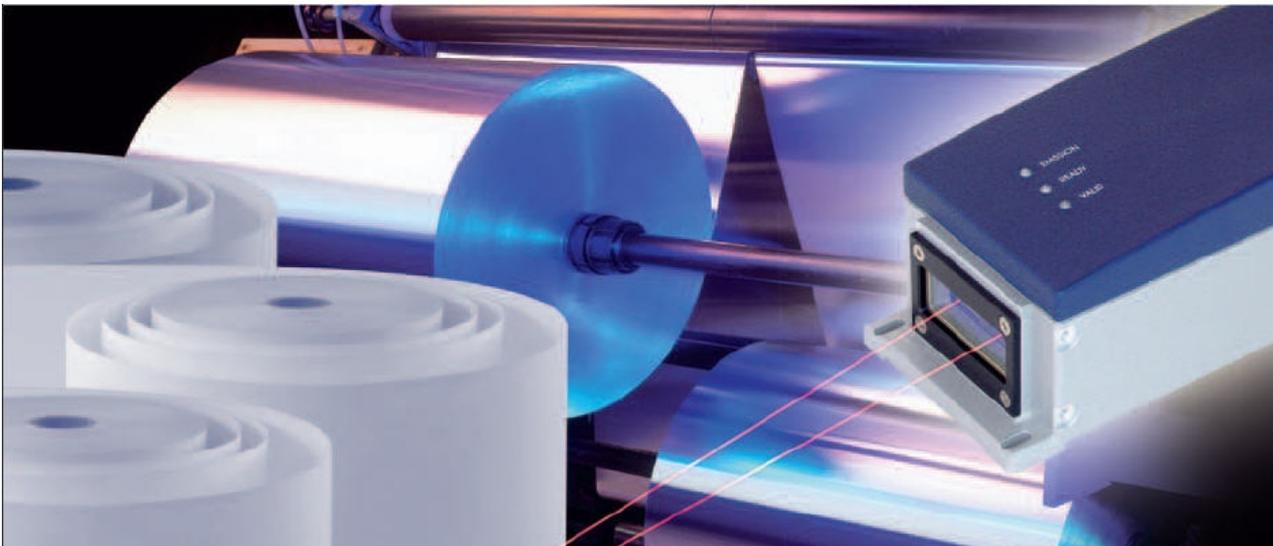
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leading to a fast ROI and a minimum cost of ownership for the measurement and control task.

More info: <http://www.polytec.com/lsv>



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