

# POSITIONING A FOIL UNWINDER WITH F90 INDUCTIVE POSITIONING SYSTEM

MARKET: MACHINE AND PLANT ENGINEERING

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Heinrich Wemhöner GmbH & Co. KG, a company headquartered in Herford, eastern Westphalia, Germany, develops and produces presses for the wood processing industry, the automotive industry, and solar technology. With its short-cycle, trough-feed and 3D variopresses, Wemhöner is considered a global technological leader.

## TASK

To replace mechanical limit switches that are able to detect only two digital switching states and which cannot implement more precise positioning for recording the position of a foil unwinder. The unwinder must be maintained exactly in position with the aid of an analog output plus two programmable limit values.

## IMPLEMENTATION

The Pepperl+Fuchs F90 sensor is used to record the exact position. Use of the **PMI104-F90-IE8-V15** replaces two mechanical limit switches. The device works trouble-free despite the target being only 5 mm wide, as seen in figure 1.



Fig. 1: PMI104-F90-IE8-V15 with a target 5 mm wide

## CUSTOMERS' BENEFIT

Using Pepperl+Fuchs F90 inductive positioning systems is especially advantageous in contrast to limit switches since the sensor is not subject to **any mechanical wear**. **Errors are reduced**. Fast, easy installation **saves customer even more money**. The **exact position** of the foil unwinder can be determined at any time by an **analog output** of 4 ... 20 mA on a section of 0 ... 104 mm.