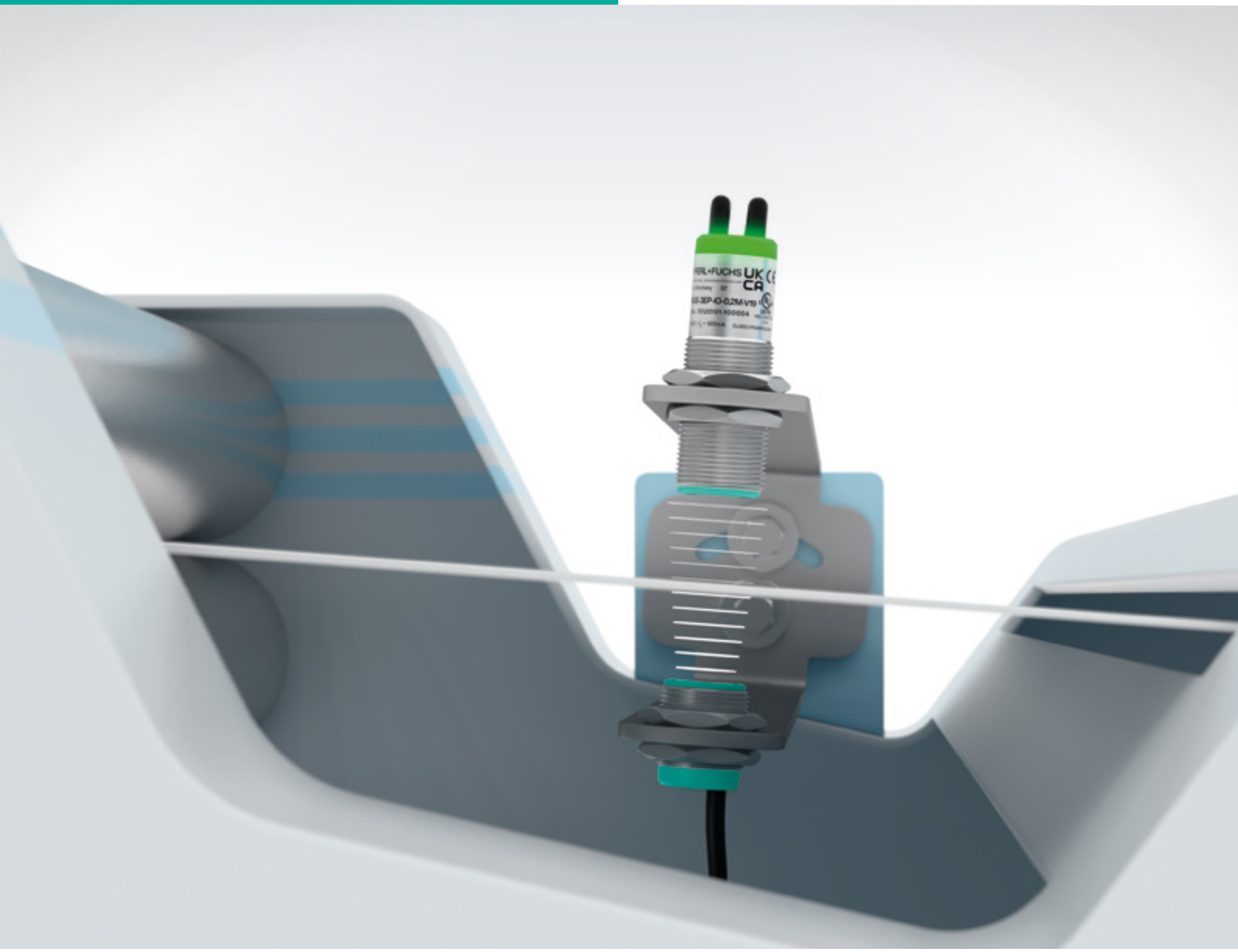
The New Easy.

Double material detection of paper, foil, wood, or metal—easier than ever with IO-Link.

Ultrasonic Double Sheet Sensors of the M18 and M30 Series



Your automation, our passion.

PEPPERL+FUCHS

M18 and M30 Double Sheet Sensors

Reliable Layer Detection for Correct Material Feed

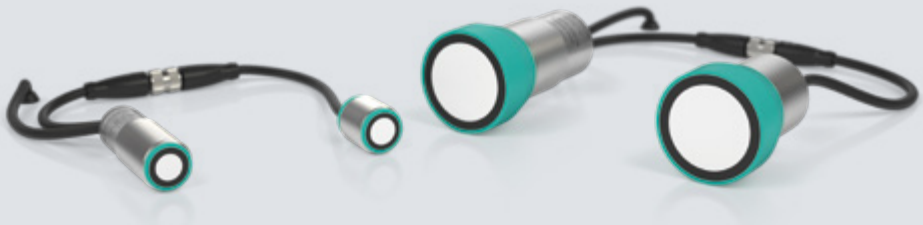
One layer, two layers, or no material at all? The M18 and M30 series double sheet sensors from Pepperl+Fuchs detect the difference for a wide range of materials. And they do so very easily using the same configuration. IO-Link enables access to sensor parameters, diagnostic data, and process data.

Flexible Use for All Materials

Ultrasonic layer detection can be used flexibly for different materials: from lightweight sheets of paper to stable sheets of metal. The difference between one and several layers is reliably detected with a standard sensor setting. If necessary—for example, for extremely thin paper fleece or materials with different thicknesses—the threshold values can be adjusted individually via a simple teach-in function or via dynamic switching between different threshold settings. The integrated IO-Link interface enables comprehensive communication along with simple commissioning and parameterization processes. Automatic synchronization allows several sensors to be used simultaneously in a confined space.

Through Thick and Thin

Two versions of the double sheet sensors are available. The M18 series devices detect materials such as paper, cardboard, simplex corrugated paper, plastic films, and thin sheets that are up to approx. 0.4 mm in thickness. In the printing industry, these devices are used for double sheet detection to prevent misprints and paper jams. The M30 series is designed for thicker materials, such as duplex corrugated paper, sheets of glass, and metal plates that are up to 3 mm in thickness. A typical application example is layer detection when processing wooden panels: The sensor detects when the gripper robot accidentally places two panels in the feed. This prevents damage to the tools and ensures correct processing.



For more information, visit:
pepperl-fuchs.com/pf-M18-M30

- IO-Link enables full access to sensor parameters, diagnostic data, and process data
- Standard threshold values for most materials; individual configuration if required
- Quick commissioning, preset threshold values, and intuitive teach-in function with feedback
- SYNC — Automatic synchronization of several sensors in a confined space