

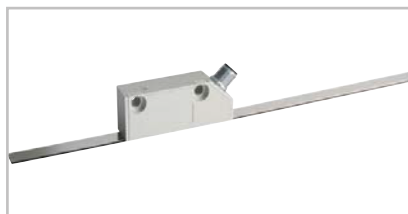
Magnetic measurement for digital printing

Extremely robust against contamination

Sensor technology is omnipresent in digital quality printing and is becoming increasingly important. Both multi-pass and single-pass printers require reliable and precise position information for optimum printing results.

Measuring solutions based on the non-contact magnetic measuring principle consist of a high-precision scale (magnetic tape or magnetic ring) and a sensor. They are maintenance-free and, unlike optical systems, extremely robust against fog and contamination.

Linear position detection and monitoring



With our absolute measuring solutions, you always have the exact position, even after de-energizing. For example, with the high-resolution EMAX-HI for precise and dynamic positioning.



Our portfolio includes incremental measurement solutions for different requirements, for example the extremely compact HMIX1X with 1 μm resolution.

Rotary position feedback



Single-turn absolute encoder EMAX-RO with 16,000 measuring steps/revolution



All incremental sensors are basically also suitable for rotary applications.



Magnetic rings In addition to a wide range of standard sizes, customized geometries are possible.



YOUR ADVANTAGES

- Maintenance-free due to non-contact measurement technology
- Extremely robust against contamination and fog
- High resolutions in the μm range
- Resolution can also be displayed in dpi
- Shock and vibration resistant
- Measurement solutions for linear and rotary applications
- Easy mounting
- Compact and space-saving
Also suitable for long measuring lengths
- Incremental or absolute measurements possible
- Customized design possible

KEY TECHNICAL DATA

- Repeat accuracy $\pm 1 \mu\text{m}$
- Resolution 1 μm
- Measuring speed up to 2 m/s
- Periodic index pulse or freely definable reference mark
- Various interfaces
- High protection class up to IP67
- Cable length up to 50 m