Baumer



EcoSpin – Magnetic sensors Rotational speed and angular measurement has never been easier

Motion Control
Sensor Solutions
Vision Technologies

EcoSpin – Magnetic sensors. Easy, versatile and economical.

EcoSpin Product Highlights

- Easy Quick and easy installation in less than 60 seconds
- Versatile Modular, flexible system, individually adaptable to the specific application
- Economical Greatest economy thanks to a finely adapted product concept with an optimal price/ performance ratio

Benefits of magnetoresistive sensors

- Long service life Measurements are contactless and wear-free without any moving parts
- Robust High protection class together with resistance to shock and vibration are particular characteristics of these magnetic sensors
- Process security Durability and its immunity to dirt enables peak machine productivity



Installation friendly

In developing the *EcoSpin* concept, particular attention was paid to installation friendliness. The spacer strip mounted on the sensors eliminates the need for a feeler gauge making sensor installation and adjustment child's play.

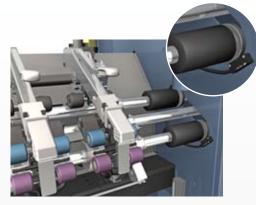
Compact

EcoSpin inspires thanks to smallest sensor dimensions. With an installation depth of a mere 10 mm, the sensor is ideally suited for applications with limited installation space.

EcoSpin – universally employable for many tasks.

Rotational speed monitoring

Rotational speed must be measured and monitored on spindles winding up, diverting or stretching thread. *EcoSpin* is particularly well suited to these tasks thanks to its immunity to vibrations and dirt.



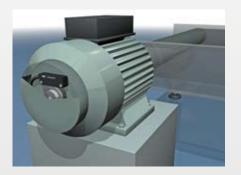
Angular measurement

The angle of cuts must be measured on manual and semiautomatic timber processing machinery. Magneto-resistive sensors in particular are eminently suitable for these applications because of their ability to measure angles combined with their imperviousness to dirt.



Rotational speed measurement

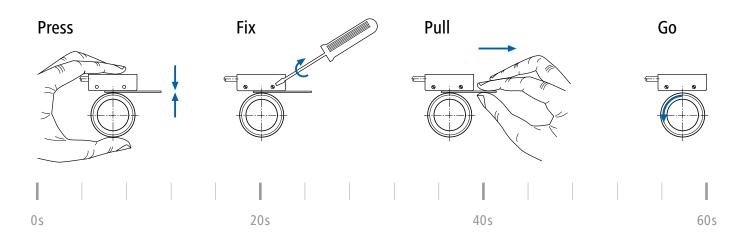
Measuring systems to determine rotational speed are frequently integrated into electric motors. Thanks to its extremely compact installation size and easy installation, *EcoSpin* offers an ideal solution for this integration.



Typical application fields

- Textile machinery
- Motion control
- Graphics machinery
- Wood/timber processing machinery
- Machine tools
- Packaging machinery
- Medical technology

Easiest installation and adjustment with *EcoSpin* – in less than 60 seconds

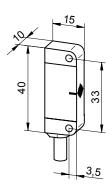


The most important technical properties

EcoSpin magnetic sensor	MEFK 10G2124
voltage supply	8 28 VDC
max. measuring steps*	2880 steps at 4-fold evaluation
max. switching frequency*	2,0 MHz
system accuracy	± 0,8°
jitter	± 20%
output circuit	A/B channel with push-pull output
protection class	IP 67
temperature range	-25 +85 °C
connection	cable PUR 4 x 0,25

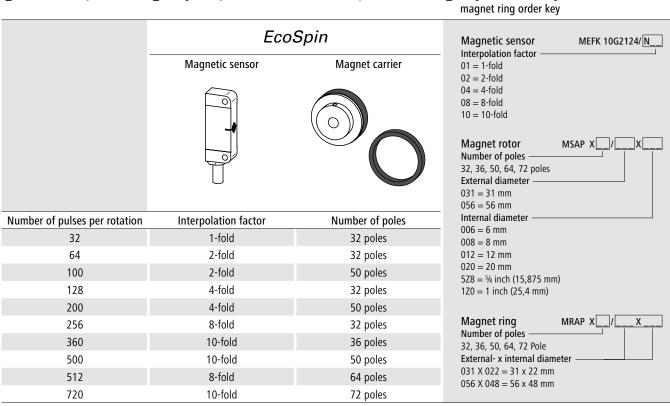
^{*}Please refer to the spec sheet for details

Small and robust



Easy and flexible - Your EcoSpin solution in 3 steps

- 1 Determine the pulse count 2 Assign interpolation factor and number of poles
- Magnetic sensor, magnet rotor and magnet ring order key



For more information about *EcoSpin*, please look on the internet under www.baumerelectric.com/en/211.html



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