

**MW991424**

**LINEAR AND ANGULAR MEASUREMENT • MAGNETIC**

For length measurement, rotational speed or angle measurement, magnetic measuring systems are used. These systems operate in a way that the sensor moves without contact over a flexible magnetic tape, or it is situated above the rotating magnetized measuring wheel. The magnetic tape is applied to a 0.3mm thick steel strip and is located on the circumference of the various measuring wheels. The magnetization is carried out with defined pole pitches. By scanning of the magnetic poles an analog signal is generated, which is converted into digital square wave signals that can be processed by a downstream electronics and, if necessary, be displayed. The sensor detects the pitch of the strip and converts the information into a high-resolution path or rotation information. To read out the magnetic lines no direct contact is required. Magnetic sensors are insensitive to dirt, oils and moisture and relatively stable at shock and vibration. For users, this opens up a wide field of applications, e.g. for plants and systems in the timber industry, at linear axes, in outdoor areas or with machine tools.



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**MECHANICAL DATA**

Ambient temperature (MAX)	60 °C
Cable length	3 m
Degree of protection (IP)	IP67
Housing material	Aluminium
Length	26.7 mm
Material of cable sheath	PVC
Max. traverse speed	5 m/s
Sensor height	15 mm
Sensor length	26.7 mm
Sensor width	7.8 mm
Shock resistance, acceleration	200 g
Shock resistance, pulse time	11 ms
Storage temperature	70 °C
Storage temperature	-20 °C
Vibration resistance, acceleration	20 g
Vibration resistance, frequency	50 Hz

**ELECTRICAL DATA**

Multi-part systems	Yes
Number of pins	6
Resolution	10 µm
Sensing range	0.1 mm ... 2 mm
Type of electrical connection	Cable with connector

**OTHER DATA**

Relative air humidity	100 %
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**DIMENSIONAL DRAWING****INSTALLATION**

Mounting / Installation may only be carried out by a qualified electrician!

**DISPOSAL****SAFETY WARNINGS**

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!