

MV56A199

SAFETY SYSTEMS • SWITCHING AMPLIFIERS

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

Degree of protection (IP)	IP20
Depth	98.5 mm
Device design	Field device
Height	75 mm
Housing design	Cuboid
Housing material	Polycarbonate
Length	98.5 mm
Mounting method	Snap mounting mounting rail
Width	22.5 mm

ELECTRICAL DATA

Amplifier for magnetic sensors	Yes
Galvanic isolation between input and output	No
Galvanic isolation between inputs	No
Galvanic isolation between supply voltage and all other current circuits	No
Inherently safe according to EN 60947-5-6 NAMUR	No
Malfunction message output	Yes
No-load current	60 mA
Number of channels	1
Rated supply voltage at DC	24 V ... 24 V
Suitable for safety functions	Yes
Switching capacity	1700 VA
Switching current	8 A
Switching voltage	250 V
Switching voltage AC	250
Type of electrical connection	Clamp
Type of voltage supply	Active

ELECTRICAL DATA

With LED display

Yes

OTHER DATA

Operating temperature

0 °C ... 55 °C

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!