

MV991425

LINEAR AND ANGULAR MEASUREMENT • 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.



MECHANICAL FEATURES

Depth	115 mm
Device design	Field device
Height	19.3 mm
Housing design	Cuboid
Housing material	Metal
Length	115 mm
Mounting method	Floor fastening
Width	55 mm

ELECTRICAL FEATURES

Amplifier for position measuring systems	+
Galvanic isolation between input and output	-
Galvanic isolation between inputs	-
Galvanic isolation between supply voltage and all other current circuits	-
Inherently safe according to EN 60947-5-6 NAMUR	-
Malfunction message output	+
No-load current	70 mA
Number of channels	1
Number of output circuits, transistor npn	1
Number of output circuits, transistor pnp	1
Number of pins	9
Rated supply voltage at DC	24 V ... 24 V
Reverse polarity protection	+
Suitable for safety functions	-
Switching current	0.02 A
Switching voltage	24 V
Switching voltage DC	24 V
Type of electrical connection	Plug-in connection
Type of switching function	Push-pull
Type of voltage supply	Active
Voltage type	DC
With communication interface, RS-422	+
With LED display	+

OTHER FEATURES

Operating temperature	0 °C ... 70 °C
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Other

Packaging dimensions	124.0mm x 28.0mm x 149.0mm
Shipping weight	0.25kg
Tariff code	90318020

Classification

ipf product group	700
eClass 8.0	27210121
eClass 9.0	27210121
eClass 9.1	27210121
ETIM-5.0	EC001485
ETIM-6.0	EC001485
ETIM-7.0	EC001485

Connection

Dimensional drawing

Installation



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

Disposal



Software

Please download the software or driver required for operating your new device on our homepage: www.ipf.de

Safety warnings

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information. Never use these devices in applications where the safety of a person depends on their functionality. LED lighting systems can generate intensive UV radiation, which can damage your eyes in case of improper use. The manufacturer cannot be held responsible for damages that result from improper use or connection.