

MV991425

Linear and angular measurement • Switching amplifiers

Amplifier Magnetic, linear measurement, 19x115x55mm, 24V DC, push-pull, plug connection 9-pin, metal, LED

including Nut



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.

Electrical features

Number of channels	1
Display	LED display
Type of switching function	Normally open (NO for PNP) Normally closed (NC for NPN)
Type of electrical connection	Plug-in connection
Type of switching output	Push-pull
Rated switching current	20 mA
No-load current	70 mA
Number of pins	9
Switching voltage	24 V
Switching voltage DC	24 V
Reverse polarity protection	Yes
Supported communication interface	RS422
Operating voltage (DC)	24 V
Malfunction message output	Yes
Amplifier for position measuring systems	Yes

Mechanical features

Design	Cuboid
Width	55 mm
Height	19.3 mm
Length	115 mm
Mounting method	Floor fastening
Housing material	Metal
Ambient temperature	0 - 70 °C

Other features

Version	Built-in device
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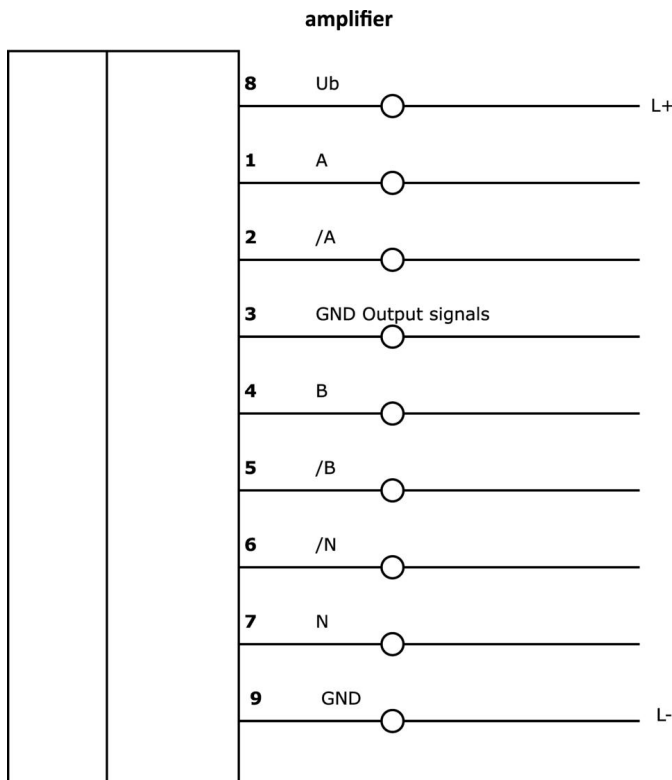
Classification

ETIM 8	EC001485 Isolation amplifier
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More

IPF Product Group	235 magnetic linear measurement systems
packaging dimensions	149 x 124 x 28 mm
gross weight	250 g
Customs tariff number	90318020
WEEE number	40951076
Reach-compliant	Yes
RoHS-compliant	Yes

Connection



**Installation**

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

**Disposal**

WEEE number according to § 6 para. 3
ElektroG: 40951076

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.