

**VD98A954**
**ROTARY ENCODERS • ENCODERS**

A rotary encoder is a device that converts a rotary motion into a digital output signal, which can be processed on a subsequent evaluation electronics. All of our encoders operate according to the principle of optical scanning. Inside the device there is a pulse disc on which is – depending on the encoder - a unique (absolute) or repetitive (incremental) line graduation, which is scanned by an optical system. The turning of the encoder shaft causes rotation of the pulse disc, which results in a corresponding sampling signal of the optical system. This is finally implemented by an integrated electronics in encoder-specific output signals (e.g. multi-turn, RS422 etc.). For professional installation in many applications, shaft couplings or resilient bases for mounting brackets or flanges are used. In addition, the encoder shaft can be equipped with measuring wheels or pinions in various designs and sizes. Typical applications include the angle measurement on bending machines, length measuring of belt systems or speed measurement on winding systems.

**MECHANICAL DATA**

Ambient temperature	-10 °C ... 60 °C
Cable length	0.3 m
Degree of protection (IP)	IP52
Housing material	GFV
Max. rotation speed	1500 UpM
Moment of inertia	0.02 gcm <sup>2</sup>
Sensor height	73 mm
Sensor length	127 mm
Sensor width	118 mm
Shaft diameter	7 mm ... 7 mm
Torque	0.02 Nm
Type of encoder shaft	Full shaft
Version	Incremental encoder
Weight	0.25 kg

**ELECTRICAL DATA**

Impulse rate per revolution	0.5 ... 0.5
Max. no. of pulses	0.5
Max. output current	2000 A
Physical measurement principle	Mechanical
Programmable	No
Reverse polarity protection	Yes
Shaft length	28
Supply voltage	12 V ... 230 V
Type of electrical connection	Cable axial
Voltage type	AC/DC

**OTHER DATA**

Air humidity	95 %
Single-turn encoder	Yes

**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!