

VD990893

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	-20 °C ... 70 °C
Axial load capacity of shaft	40 N
Degree of protection (IP)	IP65
Encoder size	58
For damp environments	Yes
Housing material	Aluminium
Max. rotation speed	8000 UpM
Radial load capacity of the shaft	30 N
Sensor diameter	58 mm
Sensor length	75 mm
Shaft diameter	6 mm ... 6 mm
Torque	0.05 Nm
Type of encoder shaft	Full shaft
Version	Incremental encoder
Weight	0.32 kg

ELECTRICAL DATA

Encoder signal outputs	A+B+0
Impulse rate per revolution	1000 ... 1000
Max. no. of pulses	1000
Max. output current	40 A
Max. output frequency	300000 Hz
No-load current	40 mA
Programmable	No
Shaft length	20
Short-circuit-proof	Yes
Standard for interfaces	RS-422

ELECTRICAL DATA

Supply voltage	4.75 V ... 30 V
Type of electrical connection	Axial connector
Voltage type	DC

OTHER DATA

Single-turn encoder	Yes
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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!