

VD24C761

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 ... 85 °C
Axial load capacity of shaft	20 N
Cable length	2 m
Degree of protection (IP)	IP50
Encoder size	<=24
Housing material	Aluminium
Material of cable sheath	PVC
Max. rotation speed	12000 UpM
Radial load capacity of the shaft	10 N
Sensor diameter	24 mm
Shaft diameter	4 mm ... 4 mm
Shock resistance, acceleration	100 g
Shock resistance, pulse time	6 ms
Torque	0.01 Nm
Type of encoder shaft	Hollow shaft
Version	Incremental encoder
Vibration resistance, acceleration	100 g
Weight	0.06 kg

ELECTRICAL DATA

Encoder signal outputs	A+B+0
Max. output frequency	160000 Hz
No-load current	50 mA
Physical measurement principle	Optic
Programmable	No
Shaft length	10
Short-circuit-proof	Yes

ELECTRICAL DATA

Supply voltage	8 V ... 30 V
Type of electrical connection	Cable axial
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!