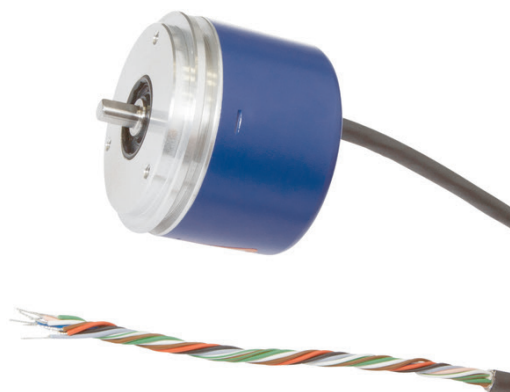


VD58C510

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	-25 °C ... 85 °C
Axial load capacity of shaft	20 N
Cable length	5 m
Degree of protection (IP)	IP65
Encoder size	58
For damp environments	Yes
Housing material	Aluminium
Max. rotation speed	10000 UpM
Moment of inertia	14.5 gcm ²
Radial load capacity of the shaft	40 N
Sensor diameter	58 mm
Sensor length	55 mm
Shaft diameter	6 mm ... 6 mm
Shock resistance, acceleration	200 g
Shock resistance, pulse time	6 ms
Torque	0.03 Nm
Type of encoder shaft	Full shaft
Version	Incremental encoder
Vibration resistance, acceleration	10 g
Weight	0.25 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	150000 Hz

ELECTRICAL DATA

No-load current	30 mA
Number of pins	12
Physical measurement principle	Optic
Programmable	No
Reverse polarity protection	Yes
Shaft length	10
Short-circuit-proof	Yes
Supply voltage	4.75 V ... 30 V
Track B inverted	Yes
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!