

VD98A017

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

80 °C
10 N
IP64
58
10000 UpM
20 N
58 mm
63.5 mm
76.2 mm
6 mm 6 mm
100 g
11 ms
Full shaft
Incremental encoder
10 g

ELECTRICAL DATA

Encoder signal outputs	A+B+0
Impulse rate per revolution	2000 2000
Max. no. of pulses	2000
Max. output current	20 A
Max. output frequency	300000 Hz
No-load current	100 mA
Number of pins	12
Programmable	No
Shaft length	21.7



ELECTRICAL DATA

Supply voltage 5 V ... 5 V

Type of electrical connection Radial connector

Voltage type DC

OTHER DATA

Single-turn encoder	Yes
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DIMENSIONAL DRAWING

INSTALLATION DISPOSAL



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



SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!