

VD58C896

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
Degree of protection (IP)	IP54
Encoder size	58
Housing material	Aluminium
Moment of inertia	14.5 gcm ²
Sensor diameter	58 mm
Sensor length	67 mm
Shaft diameter	12 mm 12 mm
Shock resistance, acceleration	100 g
Shock resistance, pulse time	6 ms
Type of encoder shaft	Hollow shaft
Version	Absolute encoder
Vibration resistance, acceleration	10 g
Weight	0.25 kg
With hollow shaft	Yes

ELECTRICAL DATA

Absolute position value collection	Singleturn
Impulse rate per revolution	2880 2880
Max. no. of pulses	2880
No-load current	50 mA
Number of pins	16
Number of steps per revolution	2880 2880
Physical measurement principle	Optic
Programmable	No
Reverse polarity protection	Yes



ELECTRICAL DATA

Short-circuit-proof	Yes
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Supply voltage	10 V 30 V
Type of electrical connection	Connector M23
Voltage type	DC

OTHER DATA

Air humidity	95 %
Single-turn encoder	Yes

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!