VD580828

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

Max. output frequency

No-load current

-20 °C 85 °C
20 N
IP54
58
Aluminium
10000 UpM
14.5 gcm ²
40 N
58 mm
65 mm
6 mm 6 mm
200 g
6 ms
0.02 Nm
Full shaft
Incremental encoder
10 g
2000 Hz
0.25 kg
A+B+0
2000 2000
2000
40 A

150000 Hz

30 mA

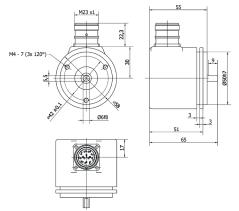
IPF ELECTRONIC

ELECTRICAL DATA

Number of pins	12
Physical measurement principle	Optic
Programmable	No
Shaft length	10
Short-circuit-proof	Yes
Supply voltage	4.75 V 30 V
Track A inverted	Yes
Track B inverted	Yes
Track N inverted	Yes
Type of electrical connection	Connector M23
Voltage type	DC
OTHER DATA	

Relative air humidity	95 %
Single-turn encoder	Yes

DIMENSIONAL DRAWING



INSTALLATION



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!