

VD98A439

Encoder • Incremental

Encoder, Ø51mm 26long, hollow shaft 6mm, 500 pulses, 5-30V DC, cable 8-pin 2m, IP65



An encoder or rotary encoder is a device that converts a rotary movement into a digital output signal that can be processed via downstream evaluation electronics. Our encoders all work on the principle of optical scanning. Inside the device there is an impulse disc on which, depending on the encoder, there is a unique (absolute) or repeating (incremental) line graduation that is scanned by an optical system. Turning the encoder shaft causes the impulse disc to rotate, which results in a corresponding scanning signal from the optical system. This is then converted into encoder-specific output signals by integrated electronics (e.g. multiturn, RS422, etc.). Shaft couplings, resilient base (for mounting brackets or flanges) are used for professional mounting in numerous applications. In addition, the encoder shaft can be fitted with measuring wheels or pinions in various versions and sizes. Typical application examples include angular measurement on bending machines, length measurement on conveyor systems or speed measurement on winding systems.

Electrical features

Type of electrical connection	Cable
Rated switching current	40 mA
Increments per revolution	500
No-load current	40 mA
Shaft length	27
Number of pins	8
Switching frequency	200000 Hz
Signal outputs	A+B+0
Operating voltage (DC)	5 - 30 V
ardTEEL_Schutzfunktionen	Reverse polarity protection Short circuit protection

Mechanical features

Start-up torque	0.04
Type of encoder shaft	Hollow shaft
Axial load capacity of shaft	25 N
Encoder size	58
Diameter	51 mm
Shaft diameter	6 mm
Cable length	2 m
Cable infeed	radial
Length	26.5 mm
Max. rotation speed	6000 upm
Radial load capacity of the shaft	25 N
Degree of protection (IP)	IP65
Ambient temperature	-20 - 70 °C

Classification

ETIM 8	EC001486 Rotary encoder
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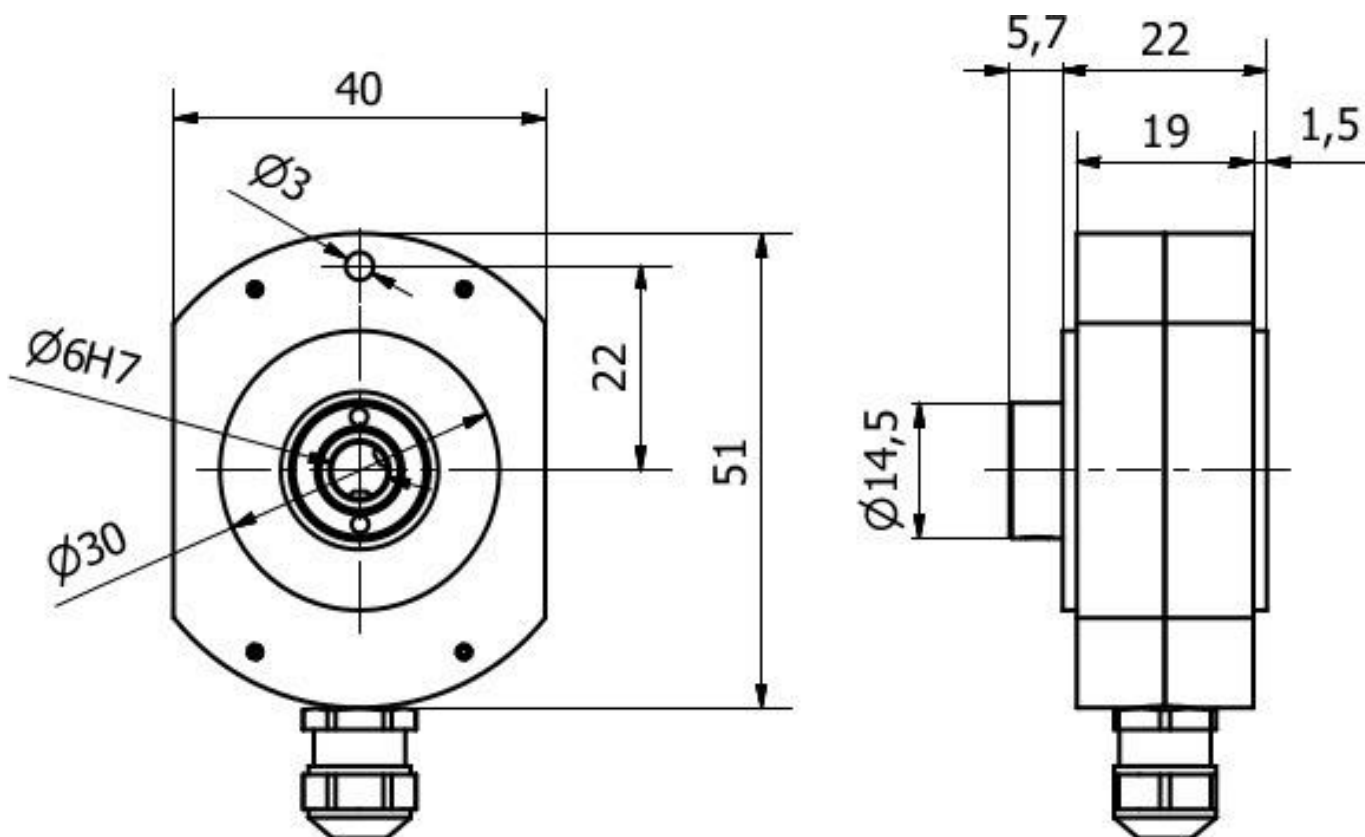
More

IPF Product Group	520 encoders
packaging dimensions	149 x 124 x 28 mm
gross weight	170 g
Customs tariff number	90318020
WEEE number	40951076
OzDS-compliant	Yes
POP-compliant	Yes
Reach-compliant	Yes
RoHS-compliant	Yes

Connection

		BN	brown L+	L+
		GN	green A	
		GE	yellow B	
		GR	gray N	
		VI	violet /A	
		BL	blue /B	
		RT	red /N	
		WS	white L-	L-

Dimensional drawing



Extract accessories program**AY000141**

Plastic sheath, Ø17mm, Inner diameter 10mm, -40-250°C, Glass fiber with silicone rubber, Short-term resistance to weld spatter 1200°C, Tensile strength 400N, Flexible, Flame retardant, yard good

You can find further accessories on our homepage

**Installation**

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

**Disposal**

WEEE number according to § 6 para. 3
ElektroG: 40951076

Safety warnings

- / Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.
- / Never use these devices in applications where the safety of a person depends on their functionality.