

Easydic Series Shaft Incremental Encoder EV28



Description

Small economical shaft encoder EV28 is widely used in light industries where space for sensor installation is a concern. The resolution is up to 600, and with its small size, light weight and high precision, it fully meets the controlling requirements of the modern light industries. With the different shaft lengths available, the product can be used in a wide variety of industrial environments. It's one of the most recommended choices when considering performance and cost.

Features

- Flexible coupling connection avoids damage to the encoder
- Stainless steel shaft $\Phi 4$ - $\Phi 5$ ensures high stability and protection
- Metal housing for better shock resistance
- Protection class IP50
- Reverse connection protection
- Short circuit protection
- Cable output, waterproof rubber end

Mechanical parameters

Shaft diameter	$\phi 4/\phi 5g6$ mm
Protection class	IP50
Speed	6000 rpm, continuous
Max load capacity of the shaft	5 N axial, 10 N radial
Shock resistance	30G/11 ms
Vibration resistance	6G 10...2000 HZ
Bearing life	10^9 revolution
Moment of inertia	approx. 0.7×10^{-6}
Starting torque	< 0.01 Nm
Body material	AL - alloy UNI 9002-5
Housing material	AL - alloy UNI 9002-5
Operating temperature	-20...+80 °C
Storage temperature	-30...+85 °C
Relative humidity/condensation	90%, Condensation not permitted
Weight	100 g

Resolution:
50,100,200,300,360,500,600

Electrical parameters

Output circuit	Push-pull	RS422	RS422
Resolution	Max. 600 ppr	Max. 600 ppr	Max. 600 ppr
Supply voltage	10...30 VDC / 5...30 VDC	5 VDC	10...30 VDC
Power consumption (no load)	≤ 100 mA	≤ 80 mA	≤ 80 mA
Permissible load (channel)	± 30 mA	± 50 mA	± 50 mA
Pulse frequency	Max. 300 kHz	Max. 300 kHz	Max. 300 kHz
Signal level high	Min. $U_b - 1.5$ V	Min. 3.4 V	Min. 3.4 V
Signal level low	Max. 0.8 V	Max. 0.4 V	Max. 0.4 V
Rise time Tr	Max. 1 μ s	Max. 200 ns	Max. 200 ns
Fall time Tr	Max. 1 μ s	Max. 200 ns	Max. 200 ns

Terminal Assignment

Signal	0V	+U _b	A	\bar{A}	B	\bar{B}	Z	\bar{Z}	Shield
Color	WH	BN	GN	YE	GY	PK	BU	RD	\perp

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Dimensions (mm)

EV28



