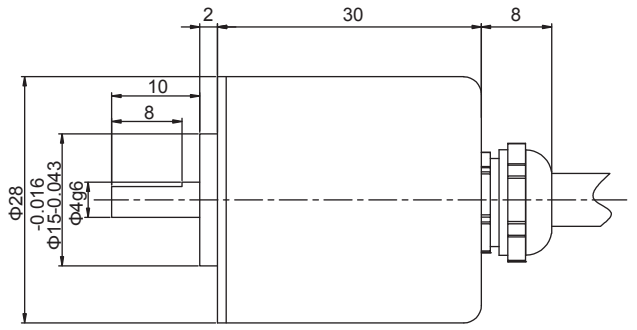
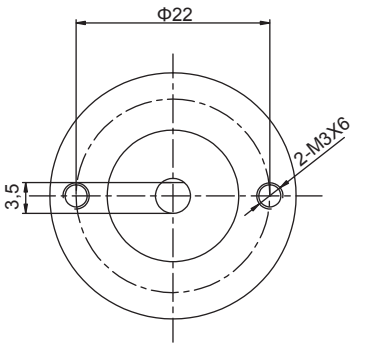
Easydic Series Shaft Incremental Encoder EB28

Dimensions

EB28





Order Code

EB 28 A 4 – L5 P A – 500 . XXXX

XXXX=Special code

Shaft diameter
4=ø 4 mm
5=ø 5 mm

Outlets direction
A=axial

Resolution
pulse/r ≤ 600
Attention: for pulse scale
pls contact our company

Shaft diameter
A=ø 15 clamping flange

Type of connection
P=cable length 0.5m
I =cable length 1m
A=cable length 2m

Housing diameter
28=housing diameter

Output & Supply voltage [1)]

L5=RS422	5Vdc
L6=RS422	10~30Vdc
H6=Push-pull HTL（with reverse sign）	10~30Vdc
H4=Push-pull HTL（with reverse sign）	5~30Vdc
P6=Push-pull HTL（without reverse sign）	10~30Vdc
P4=Push-pullHTL（without reverse sign）	5~30Vdc

Pls refer to electrical structure and wiring manual for output configuration.

Series
EB＝Easydic

[1)] Only one channel allowed to be shorted-out
if UB=5V, short-circuit to channel, 0V, or +UB is permitted
if UB=10…30V, short-circuit to channel or 0V is permitted

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Application

Small economical shaft encoder EB28 is widely used in light industries where installation dimension of sensors is required. The resolution up to 600, miniature size, light weight and high precision could fully meet controlling requirements of modern light industries. The variable shaft lengths make it applicable in a wide variety of industrial environments. It's one of the most recommended choices in consideration of performance and cost.

Characteristics

- Flexible coupling connection avoids damage to the encoder
- Stainless steel shaft Φ4, Φ5 ensures high stability and protection
- Metal housing for shock resistance
- Protection class IP50
- Reverse connection protection
- Short circuit protection
- Cable output, waterproof end rubber

Mechanical Characteristics

Shaft diameter（mm）	Φ4/Φ5g6
Protection acc. to EN 60529	IP50
Speed	6000, continuous
Max load capacity of the shaft	5Naxial，10Nradial
Shock resistance	30G/11ms
Vibration resistance	6G 10~2000HZ
Bearing life	10^9 revolution
Moment of inertia	approx.0.7×10^{-6} kgm^2
Starting torque	<0.01Nm
Body material	AL-alloy UNI9002-5
Housing material	AL-alloy UNI9002-5
Operating temperature	-20~+80°C
Storage temperature	-30~+85°C
Weight	100g

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

Electrical Characteristics

Output circuit	Push-pull	RS422	RS422
Resolution	Max. 600ppr	Max. 600ppr	Max. 600ppr
Supply voltage(VDC)	10-30V/5-30V	5V	10-30V
Power consumption (no load)	≤125mA	≤80mA	≤80mA
Permissible load (channel)	±80mA	±50mA	±50mA
Pulse frequency	Max. 300kHz	Max. 300kHz	Max. 300kHz
Signal level high	Min.Ub-1.5V	Min.3.4V	Min.3.4V
Signal level low	Max.0.8V	Max.0.4V	Max.0.4V
Rise timeTr	Max 1μs	Max 200ns	Max 200ns
Fall timeTf	Max 1μs	Max 200ns	Max 200ns

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	⏚