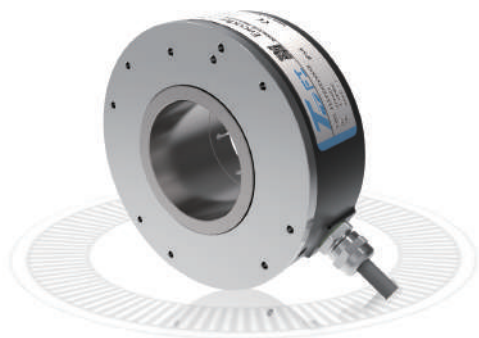


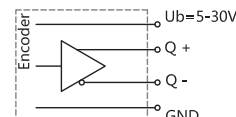
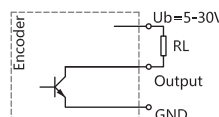
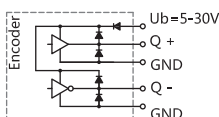
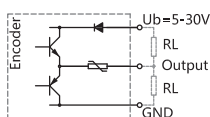


EEA Series
Incremental Encoder
Sensing method Optical
Housing size $\varnothing 100\text{mm}$
Half hollow shaft $\varnothing 30$ 、 $\varnothing 45\text{mm}$
Max. resolution 3000PPR
Supply voltage 5VDC、5-30VDC、9-26VDC
Protection IP65

Mechanical characteristics

Shaft diameter	$\varnothing 30$ 、 $\varnothing 45\text{mm}$
Protection	IP65
Speed	4000RPM
Shaft loading	Max. 40N Axial ; Max. 80N Radial
Shock resistance	100g, 6ms
Vibration resistance	10g, 10...2000Hz
Bearing life	10^9 turns
Rotor moment of inertia	$< 150 \times 10^{-6} \text{ kgm}^2$
Starting torque	$< 0.1\text{Nm}$
Body Material	Aluminum alloy
Shaft Material	Stainless steel
Housing material	Stretching the iron shell + Electrostatic spraying
Working temperature	$-40^\circ\text{C} \dots +85^\circ\text{C}$
Storage temperature	$-40^\circ\text{C} \dots +85^\circ\text{C}$
Weight	$\approx 700\text{g}$

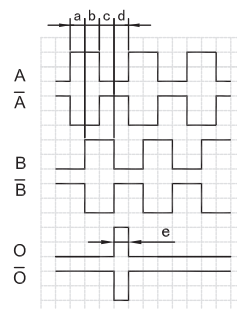
Electrical characteristics



Output circuit	Push-Pull	Push-Pull Differential	Collector open circuit	RS422 (TTL Compatible)
Pulse rate	Max.3000 P/R	Max.3000 P/R	Max.3000 P/R	Max.3000 P/R
Supply voltage	5-30V	5-30V	5-30V	5-30V
Current consumption	Max.125mA	Max.125mA	Max.80mA	Max.80mA
Maximum load current	$\pm 80 \text{ mA}$	$\pm 80 \text{ mA}$	-50 mA	$\pm 50 \text{ mA}$
Pulse frequency	100KHz	100KHz	100KHz	100KHz
Signal level high	$> U_b - 2.5\text{V}$	$> U_b - 2.5\text{V}$	/	$> 2.5\text{V}$
Signal level low	$< 0.8\text{V}$	$< 0.8\text{V}$	/	$< 0.4\text{V}$
Rise/fall time	$< 1\mu\text{s}$	$< 1\mu\text{s}$	/	$< 1\mu\text{s}$
Interface protection	Surge protection, polarity reversal protection, short circuit protection, static electricity protection			

Terminal assignment

Signal		OV	+Ub	A	$\bar{A}$	B	$\bar{B}$	O	$\bar{O}$	
Color		WH	BN	GN	PK	YE	BU	GY	RD	Shield



⌚ Shaft turning clockwise, top-view of clamping ring.

$a, b, c, d = T/4 \pm T/8$

$e = T/4 \pm T/8$

Note: Positional relationship of O channel and A&B channels is not specified.

Ordering information

EEA	45	P	1024	X	/	XXXX
	①	②	③	④		⑤

① Shaft type

30: 30mm

45: 45mm

② Output method

P : 9-26VDC, Push-Pull, A B

6P: 5-30VDC, Push-Pull Differential, $A \bar{A} B \bar{B} O \bar{O}$

9P: 5-30VDC, Push-Pull Differential, $A \bar{A} B \bar{B}$

③ Pulse rate

300, **600**

1024, 1500

3000

④ Exit position

X: Cable radial length (m)

⑤ Special code

XXXX

Note: Printed in bold=standard items

Notes: 1, mentioned resolution is in common use, others depend on real situation.

2, pls confirm the model information: model series, axis dimension, output channel, resolution, output form, voltage.

Ordering example : EDL58H10E1024A5-30R2, pls specify the special demand at end.

Explanation: EEA series, Hollow shaft 30mm, output $A \bar{A}$, $B \bar{B}$, 1024PPR, push-pull differential, 5-30VDC, Radial Output 2m.

Accessories (sold separately)

Note: For other options, please refer to the attached selection table.

Mounting bracket

Model: **8116-A**



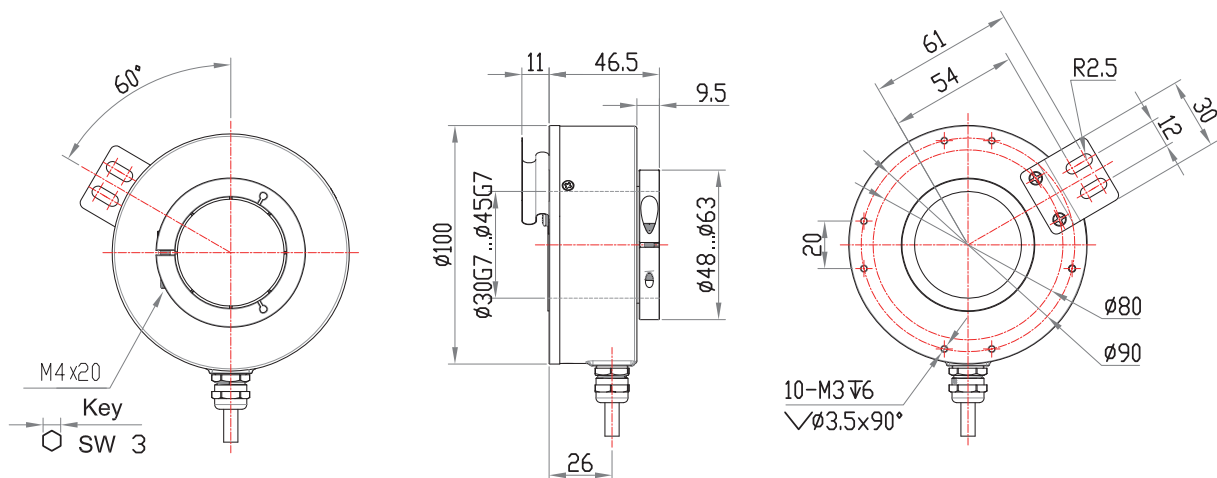
Mounting bracket

Model: **8117-A**



Dimensions

EEA+8116A



EEA+8117A

