

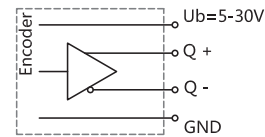
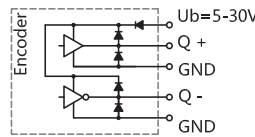
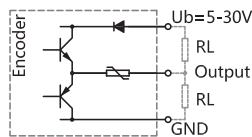


ECK58B Series
 Sensing method Optical
 Housing size $\Phi 58\text{mm}$
 Half hollow shaft $\Phi 10$ 、 $\Phi 12$ 、 $\Phi 14\text{mm}$
 Max. resolution 1200PPR
 Supply voltage 9-26、5-30VDC
 Protection IP66

Mechanical characteristics

Shaft diameter	$\Phi 10$ 、 $\Phi 12$ 、 $\Phi 14\text{mm}$
Protection	IP66
Speed	6000RPM
Shaft loading	40N Axial, 80N Radial
Shock resistance	100g, 6ms
Vibration resistance	10g, 10-2000HZ
Bearing life	10^7 turns
Rotor moment of inertia	$\approx 1.8 \times 10^{-6} \text{kgm}^2$
Starting torque	$< 0.1\text{Nm}$
Materials	Aluminium alloy
Flange	Stainless steel
Housing	Aluminum alloy + black spray
Working temperature	$-40^\circ\text{C} \dots +85^\circ\text{C}$
Storage temperature	$-40^\circ\text{C} \dots +85^\circ\text{C}$
Weight	$\approx 400\text{g}$

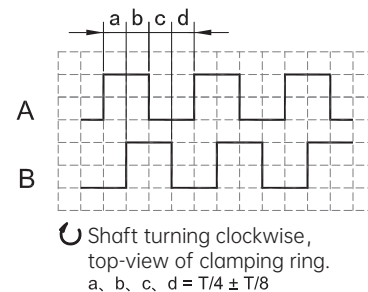
Electrical characteristics



Output circuit	Push-Pull	Push-Pull Differential	RS422 (TTL Compatible)
Pulse rate	Max. 1200 P/R	Max. 1200 P/R	Max. 1200 P/R
Supply voltage	5-30V	5-30V	5-30V
Power consumption(no load)	Max. 80 mA	Max. 80 mA	Max. 80 mA
Permissible load/channel	Max. $\pm 30 \text{ mA}$	Max. $\pm 30\text{mA}$	Max. $\pm 20 \text{ mA}$
Pulse frequency	Max. 100 KHz	Max. 100 KHz	Max. 100 KHz
Signal level high	Min. $U_b - 2.5\text{V}$	Min. $U_b - 2.5\text{V}$	Min. 2.5V
Signal level low	Max. 0.8V	Max. 0.4V	Max. 0.4V
Rise time T_r	Max. $1\mu\text{s}$	Max. $1\mu\text{s}$	Max. 600ns
Fall time T_f	Max. $1\mu\text{s}$	Max. $1\mu\text{s}$	Max. 600ns
Short circuit proof outputs	Yes	Yes	Yes

Terminal assignment

Signal		OV	+Ub	A	B	
Colour		WH	BN	GN	YE	Shield



Ordering information

ECK58B	12	B	1024	F	9-26	R	2	XXXX
	①	②	③	④	⑤	⑥	⑦	⑧
①Shaft diameter		②Channels		③Pulse rate		④Output circuit		⑤Supply voltage
10: 10mm		B: A B		300、360		F: Push-Pull		9-26: 9...26VDC
12: 12mm		D: A $\bar{A}$ B $\bar{B}$		500、 600		A: Push-Pull Differential		5-30: 5...30VDC
14: 14mm				1000、 1024		B: RS422 (TTL Compatible)		
				1200				
⑥Exit position		⑦Connection type		⑧Special code				
R: Radial		Figure: Cable length(m)		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、outlet、cable length、connect type and special code.

Ordering example : ECK58B12B1024F5-30R2, Special requirements please indicate to the back.

Explanation : ECK58B series, Half hollow shaft 12mm, Output signal A, B, 1024PPR, Push pull output, 5-30VDC, radial direction 2m.

Accessories (sold separately)

Note: Further stator coupling can be found in the accessories selection table.

Stator coupling, double-winged
Model (common) : 8133



Stator coupling, double-winged
Model (common) : 8133-B



Stator coupling, double-winged
Model (common) : 8133-D



Dimensions

ECK58B+8133

