

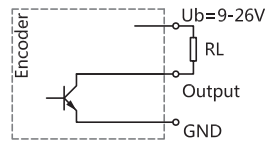
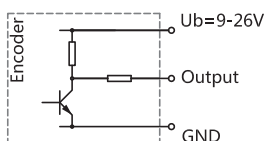
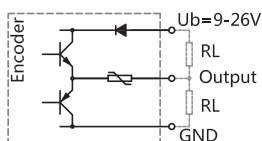


ECK38S Series
 Incremental Encoder
 Sensing method Optical
 Housing size $\varnothing 38\text{mm}$
 Shaft diameter $\varnothing 6\text{mm}$
 Max. resolution 600PPR
 Supply voltage 9-26VDC
 Protection IP54

Mechanical characteristics

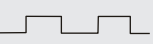
Shaft diameter	$\varnothing 6\text{mm}$
Protection	IP54
Speed	Max. 6000 min ⁻¹
Shaft loading	Max. 20N Axial; max. 40N Radial
Shock resistance	50g, 6ms
Vibration resistance	10g, 10...2000HZ
Bearing life	10 ⁹ turns
Rotor moment of inertia	Approx. $1.8 \times 10^{-6} \text{ kgm}^2$
Starting torque	<0.005Nm
Materials	Solid shaft : Stainless steel Flange : Aluminum alloy Housing : Tensile iron shell +Black painted
Working temperature	0°C...+60°C
Storage temperature	-40°C...+70°C
Weight	Approx. 83g

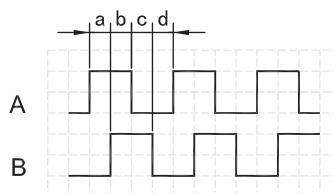
Electrical characteristics



Output circuit	Push-Pull	Voltage	Open Collector
Pulse rate	Max. 600 P/R	Max. 600 P/R	Max. 600 P/R
Supply voltage	9-26V	9-26V	9-26V
Power consumption(no load)	Max. 125 mA	Max. 125mA	Max. 80 mA
Permissible load/channel	Max. $\pm 80 \text{ mA}$	/	Max. -50 mA
Pulse frequency	Max. 20KHz	Max. 20KHz	Max. 20KHz
Signal level high	Min. Ub-2.5V	Min. Ub-2.5V	/
Signal level low	Max. 0.8V	Max. 0.4V	/
Rise time Tr	Max. 1 μs	Max. 2 μs	/
Fall time Tf	Max. 1 μs	Max. 2 μs	/
Short circuit proof outputs	No	No	No

Terminal assignment

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



Shaft turning clockwise, top-view of shaft.
a、b、c、d = $T/4 \pm T/8$

Ordering information

ECK38S 6 B 600 F 9-26 R 2 / XXXX

① Shaft diameter
6: 6mm

② Channels
B: A B

③ Pulse rate
300、360
400、600

④ Output circuit
F: Push-Pull
C: Open Collector
E: Voltage

⑤ Supply voltage
9-26: 9...26VDC

⑥ Exit position
R: Radial
C: Axial

⑦ Connection type
Figure: Cable length(m)

⑧ Special code
XXXX

Note: Printed in bold=standard items

Notes: 1, Pulse rates available at a short notice (300、360、400、600) , other pulse rates on request.

2, Pls confirm the model information: Shaft diameter 、 Channels 、 Pulse rate 、 Output circuit 、 Supply voltage、 Exit position 、 Cable length and Special code.

Ordering example: ECK38S6B600F9-26R2, Special requirements please indicate to the back.

Explanation: ECK38S Series , Shaft diameter 6mm, Output channels A、B, 600PPR, Push-Pull, 9-26VDC, Radial Output 2m.

Accessories (sold separately)

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



Coupling
Model (common) : 8212 6-6

Dimensions

ECK38S

