

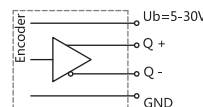
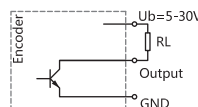
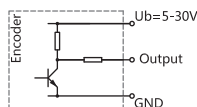
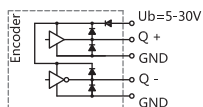
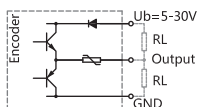


ESG38S Series	
Sensing method	Optical
Housing size	Φ38mm
Shaft diameter	Φ6mm
Max. resolution	2500PPR
Supply voltage	5VDC,5-30VDC,9-26VDC
Protection	IP54

Machine characteristics

Shaft diameter	Φ6mm
Protection	IP54
Speed	max.6000min ⁻¹
Shaft loading	max. 25N Axial; max.50N Radial
Shock resistance	50g, 6ms
Vibration resistance	10g, 10...2000HZ
Bearing life	10 ⁹ turns
Rotor moment of inertia	approx.1.8×10 ⁻⁶ kgm ²
Starting torque	<0.005Nm
Materials	Solid shaft : Stainless steel Flange : Aluminum alloy Housing : Tensile iron shell +Black painted
Working temperature	-20~+70°C
Storage temperature	-30~+85°C
Weight	Approx. 83g

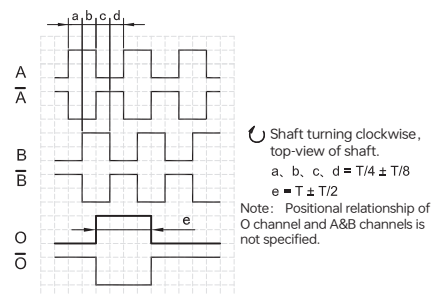
Electrical characteristics



Output circuit	Push-Pull	Push-Pull Differential	Voltage	Open Collector	RS422 (TTL Compatible)
Pulse rate	Max.2500 P/R	Max.2500 P/R	Max.2500 P/R	Max.2500 P/R	Max.2500 P/R
Supply voltage	5-30V	5-30V	5-30V	5-30V	5-30V
Power consumption(no load)	Max.125 mA	Max.125 mA	Max.125mA	Max.80 mA	Max.80 mA
Permissible load/channel	Max.±80mA	Max.±80mA	/	Max.-50mA	Max.±50mA
Pulse frequency	Max.300KHz	Max. 300KHz	Max.300KHz	Max.300KHz	Max.300KHz
Signal level high	Min.Ub-2.5V	Min.Ub-2.5V	Min.Ub-2.5V	/	Min.2.5V
Signal level low	Max.0.8V	Max.0.8V	Max.0.4V	/	Max. 0.4V
Rise time Tr	Max. 1μs	Max. 1μs	Max. 2μs	/	Max. 1μs
Fall time Tf	Max.1μs	Max.1μs	Max.2μs	/	Max. 1μs
Short circuit proof outputs	Yes	Yes	Yes	Yes	Yes

Terminal assignment

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



Ordering information

ESG38S	XX	6	E	1024	F	5-30	R	2	/	XXXX
①	②	③	④	⑤	⑥	⑦	⑧	⑨		
①Extended No. XX	②Shaft diameter 6: 6mm	③Channels B: A B C: A B O D: A A B B E: A A B B O O F: A B O	④Pulse rate 50, 100, 200, 256, 360 , 500, 512, 600 , 720, 1000, 1024 , 2000, 2048 , 2500	⑤Output circuit F: Push-Pull A: Push-Pull Differential C: Open Collector E: Voltage L: RS422 (TTL Compatible)	⑥Supply voltage 5: 5VDC 5-30: 5...30VDC 9-26: 9...26VDC	⑦Exit position R: Radial C: Axial	⑧Connection type Figure: Cable length(m)	⑨Special code XXXX	Note: Printed in bold=standard items	

Notes: 1, Pulse rates available at a short notice (50,100,200,256,360,500,512,600,720,1000,1024, 2000,2048,2500) ,other pulse rates on request.

2, Please chose the ordering information: Extended No. , Shaft diameter, Channels, Pulse rate, Output circuit 、 Supply voltage、 Exit position, Cable length and Special code.

Ordering example: ESG38S6E1024A5-30R2. Special requirements please indicate to the back.

Explanation: ESG38S Series ,Shaft diameter 6mm, Output channels **A A B B O O** , 1024PPR, Push-Pull Differential, 5-30VDC, Radial Output 2m.

Accessories (sold separately)

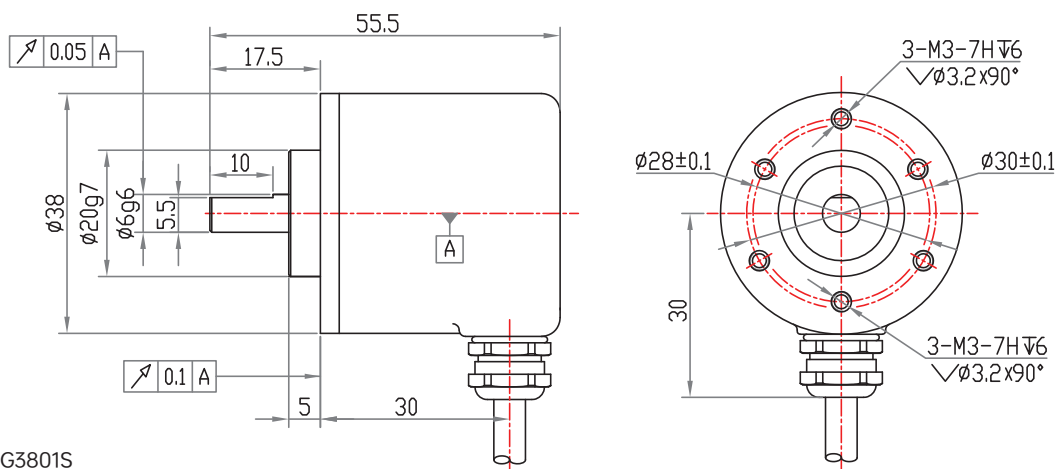
Note: Further coupling can be found in the accessories selection table.



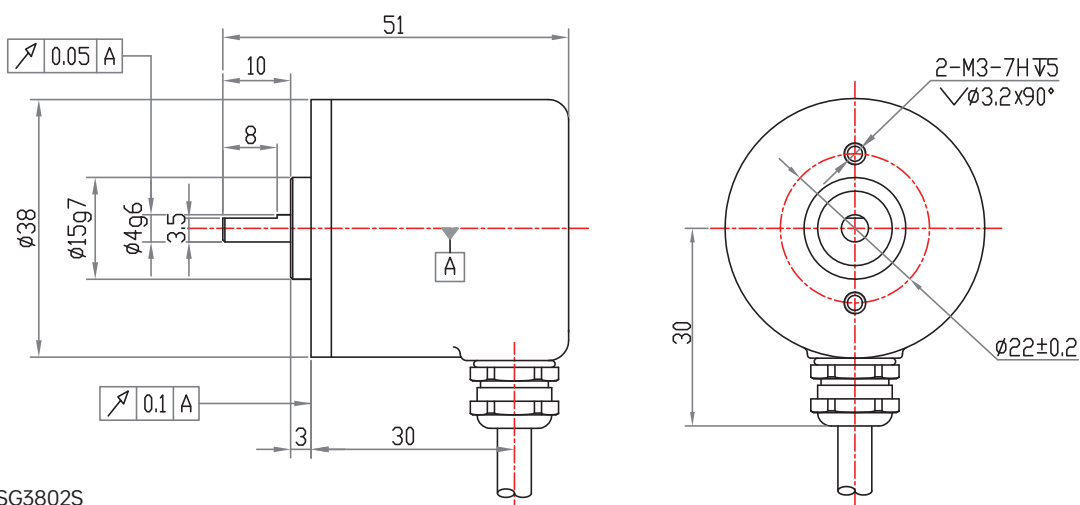
Coupling
Model (common) : 8212 6-6

Dimensions

ESG38S



ESG3801S



ESG3802S

