

Single-Turn Absolute Rotary Encoder

Housing Dia.:38,50,58mm; Solid Shaft Dia.:6,8,10mm;

Interface: Parallel; Resolution: Max.16bits

GSA-P Series









- ► Housing Diameter:38,50,58mm;
- ► Solid/hollow Shaft Diameter:6,8,10mm;
- ►Interface: Parallel;
- ▶ Resolution: Single turn max.16bits;
- ► Supply Voltage:5v,8-29v;
- Output Code: Binary, Gray, Gray Excess, BCD;
- ▶ Widely used in various fields of automatic control and measurement system, such as machinery manufacturing, shipping, textile, printing, aviation, military industry Testing machine, elevator, etc.
- ► Vibration-resistant, corrosion-resistant, pollution-resistant;

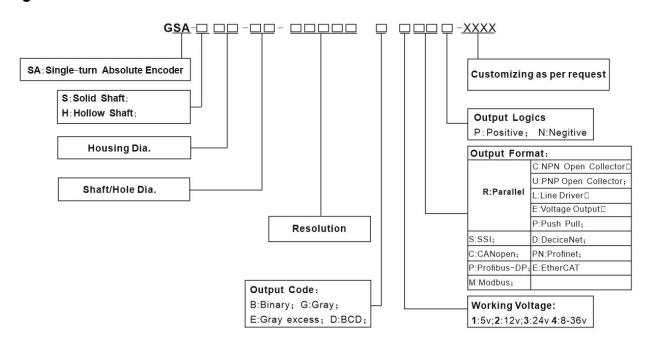
Product characteristics						
Housing Dia.:	38,50,58mm					
Solid Shaft Dia.:	6,8,10mm					
Electrical Data						
Resolution:	Single turn max.16bits					
Interface:	Parallel/NPN/PNP open collector, Push pull, Line Driver;					
Output Code:	Binary, Gray, Gray Excess, BCD					
Supply Voltage:	8-29V					
Max. Frequency Response	300Khz					
	Open Collector	Voltage Output	Line Driver	Push Pull		
Consumption current	≤80mA;	≤80mA;	≤150mA;	≤80mA;		
Load current	40mA;	40mA;	60mA;	40mA;		
VOH	Min.Vcc x 70%;	Min.Vcc - 2.5v	Min.3.4v	Min.Vcc - 1.5v		
VOL	Max.0.4v	Max.0.4v	Max.0.4v	Max.0.8v		
Mechanical Data						
Start Torque	4 x 10 ⁻³ N•M					
Max. Shaft Loading	Axial: 29.4N, Radial:19,6N;					
Max. Rotary Speed	3000rpm					
Weight	160-200g					
Environment Data						
Working Temp.	-30~80℃					
Storage Temp.	-40~80℃					
Protection Grade	IP54					

Connection Leading:

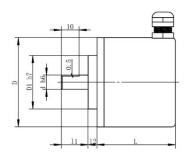
Signal	Vcc	GND	D0	D1	D2	D3	D4	D5	D6	D7	D8	D9
Colour	Brown	White	Red/Blue	Gray/Purple	Blue	Green	Pink	Purple	White	Gray	Yellow	Brown

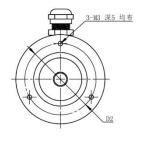
Ordering Code

Single Turn Absolute Encoder



Dimensions





D	38	50	58
d	6	8	10
D1	20	30	36 48
D2	30	40	48
L	35	35	44
11	15	15	20
12	5	5	10

Note:

- ► Adopt elastic soft connection shall be applied between encoder shaft and output shaft of user end to avoid damage of encoder shaft system due to serial movement and run out of user shaft.
- ▶ Please pay attention to the allowable axle load during installation.
- ► Make Sure that the difference Between Axial Degree of encoder shaft and user output shaft shall be no more than 0.20mm, and the deviation angle with axis shall be less than 1.5 °.
- ► Try to avoid knocking and falling collision during installation;
- ▶ Do not connect the power line and the ground wire in reverse.
- ► The GND wire shall be as thick as possible, generally larger than φ 3.
- ▶ Output lines of encoder shall not be overlapped with each other to avoid damaging output circuit.
- ► Signal line of encoder shall not be connected to DC power supply or AC current to avoid damaging output circuit.
- ▶ The motor and other equipment connected to the encoder shall be well grounded without static electricity.
- ▶ Shielded cable shall be used for wiring.
- ▶ Before starting the machine, carefully check whether the wiring is correct.
- ▶ During long-distance transmission, the signal attenuation factor shall be considered, and the output mode with low output impedance and strong anti-interference ability shall be selected.
- ► Avoid using in strong electromagnetic wave environment.