

AIS58 Series



Main Features:

- Industrial Encoder, Optical Incremental Encoder
- Double row precision bearing design, suitable for high speed or heavy load environment
- Unbreakable code disc is adopted, which is firm and reliable

Scope of Application:

- ✓ Speed sensing, angle, distance, trajectory, tilt
- ✓ Double-axis or multi-axis linkage measurement feedback
- ✓ Water conservancy, packaging, papermaking and printing, textile machinery
- ✓ Port lifting and transportation machinery, pharmaceutical and factory automation, etc.
- ✓ Use in non-explosion-proof environment

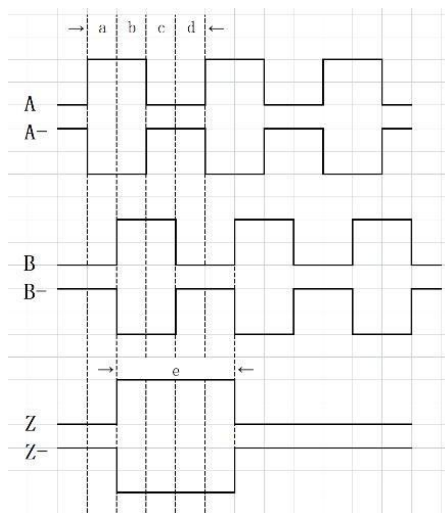
Mechanical data

Mechanical data		Meet the standard
Material	Housing: Aluminum housing	CE certification Have
	Flange: aluminum flange	Transmit jamming EN61000-6-4
	Shaft: stainless steel	Anti-interference EN61000-6-2
Axle load	Axial: Max. 50 N	Meet the requirements of ISO9001: 2008 quality management system
	Radial: Max. 80 N	
Protection	IP65	
Starting torque	≤ 0.5 Nm at 25 °C	
Maximum speed	≤ 6000RPM	
Shock	≤ 100g , 6ms	
Vibratin	≤ 10g (10Hz—2000Hz)	
Weight	≈ 310g	
Operating temperature	-20°C...+80°C	
Storage temperature	-30°C...+85°C	

Electrical data


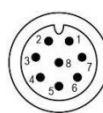

Electrical data	Push-pull (HTL compatible)	RS422 (TTL compatible)	NPN open collector	Voltage output
Output form	DC10-30V	DC5V or DC10-30V	DC5-30V	DC5-12V
Power supply voltage reverse polarity protection	Have	Have	Have	Have
Current draw (no load)	≤80mA	≤80mA	≤80mA	≤80mA
Load current (per channel)	≤60mA	≤60mA	≤50mA	≤50mA
Response frequency	≤300KHz	≤300KHz	≤300KHz	≤300KHz
Rising Edge Time (Tr)	≤200nS	≤200nS	≤300nS	≤300nS
Down Rising Edge Time (Tf)	≤200nS	≤200nS	≤100nS	≤100nS
Signal High Level	≥V _{cc} x 70%	≥2. 5VDC	/	/
Signal low	≤0. 5VDC	≤0. 5VDC	≤0. 4VDC	≤0. 4VDC

Signal output



Waveform of clockwise (CW) rotation output A, B, C, D = $T/4 \pm 10\%$ viewed from the shaft end
 $E = 1T \pm 0.5T$ (the AB phase relation is not specified)

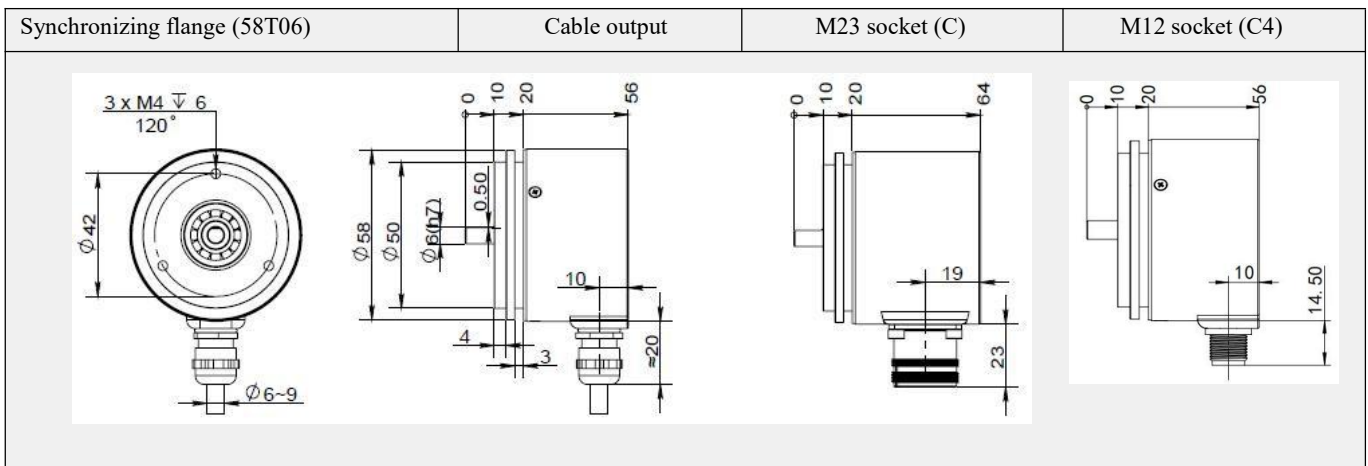
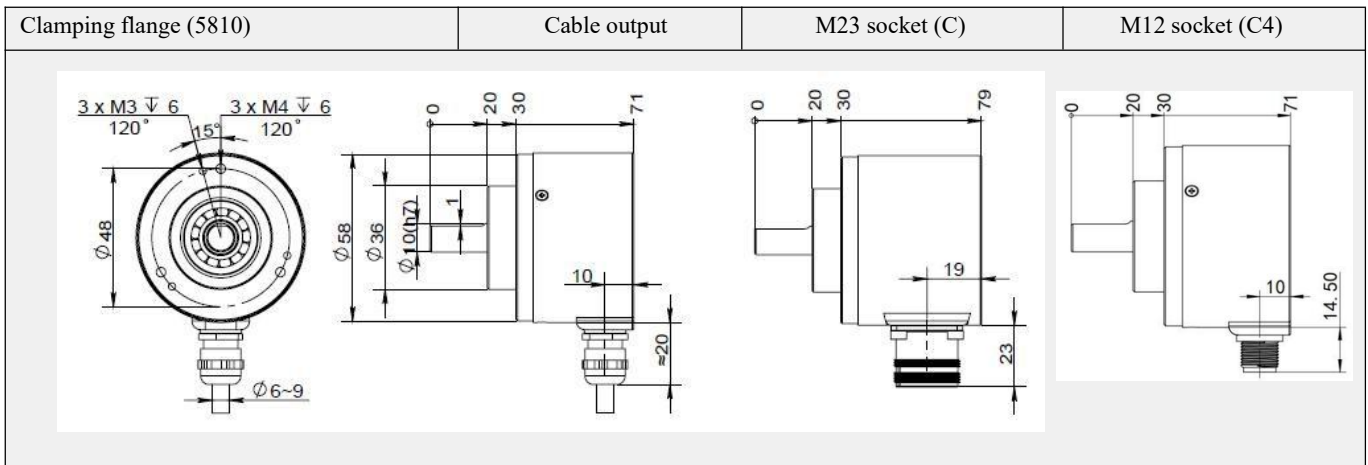
Electrical connection

Signal	Cable	Socket (encoder side)	
Encoder	8 cores	M12 (C4)	M23 (C)
	ADL-822TD Shielded special cable		
Vcc	Brown BN	2	2
OV	White WH	1	1
A	Green GN	3	3
B	Huang YE	4	4
Z	Grey GY	5	5
A-	Pink PK	6	6
B-	Blue BU	7	7
Z-	Red RD	8	8
G	Shielded (internal default to enclosure)		

Selection instructions

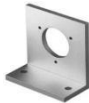

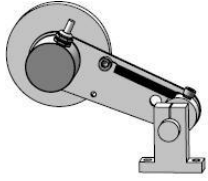




A	I	S	58	—	—	—	—	—	—
<p><u>Installation method</u></p> <p>S = solid shaft</p>			<p><u>Resolution</u></p> <p>50, 100, 200, 256, 360, 400 500, 512, 600, 720, 1000 1024, 1500, 2000, 2048 2500, 3600, 4096, 5000</p> <p>For other pulses, please consult</p>			<p>Special</p>			
<p><u>Flange size</u></p> <p>58= $\varnothing 58\text{mm}$</p>			<p><u>Supply voltage/circuit/signal</u></p> <p>6 DP = 10-30VDC, Push-Pull Differential HTL, A B Z A -B-Z- 6AR=5VDC, RS422 TTL, A B Z A- B- Z- 6DR=10-30VDC, RS422 TTL, A B Z A- B- Z- 3 EO = 5-30VDC, NPN OC (open collector) A B Z</p>						
<p><u>Shaft</u></p> <p>10 = $\varnothing 10\text{mm} * 20\text{mm}$ clamping flange T06 = $\varnothing 6\text{mm} * 10\text{mm}$ synchronizing flange</p>			<p><u>Outgoing</u></p> <p>GR = Radial, cable 1m CR = radial, plug M23 C4R = radial, plug M12</p>						

Mechanical dimension (mm)



Accessories (sold separately)

Stainless steel coupling	Spring steel coupling	M12 plug	M12 plug with cable	M23 plug	M12 plug with cable
					
AL4A-Bxx-xx	AL3B-xx-xx	C4T	C4T-xx	C12C	C12Cxx-LZ

Install the bracket	Explain	Product model	Adaptive encoder series
	Mounting bracket material: aluminum alloy Process: oxidation treatment	AZJ80	5810
	Mounting bracket material: aluminum alloy Process: oxidation treatment	AZJ110	5810
Spring Mounting Bracket	Explain	Product model	Adaptive encoder series
	The bracket is an elastic mechanism, the roller is pressed on the moving object, the pressure of the elastic mechanism can avoid the slipping phenomenon between the roller and the measuring object, and the elastic force can be automatically adjusted.	AZJ140-58	Series 58 Clamping flange 5810 Clamping synchronizing flange 58A10 The circumference depends on the roller
	Aluminum alloy + polyurethane, highly wear-resistant	WJ200-10	Circumference 200mm
	Aluminum alloy + knurling process	WJ300-10	Perimeter 300mm
	Aluminum alloy + wear-resistant rubber, highly wear-resistant	WL300-10	Perimeter 300mm
	Aluminum alloy + wear-resistant rubber, highly wear-resistant	WX500-10	Circumference 500 mm