

X ISC5208 SERIES

Shaft diameter $\Phi 8$ mm, clamping flange, housing diameter $\Phi 52$ mm.

Low price at high performance, small volume, light weight, easy for installing

Applications:

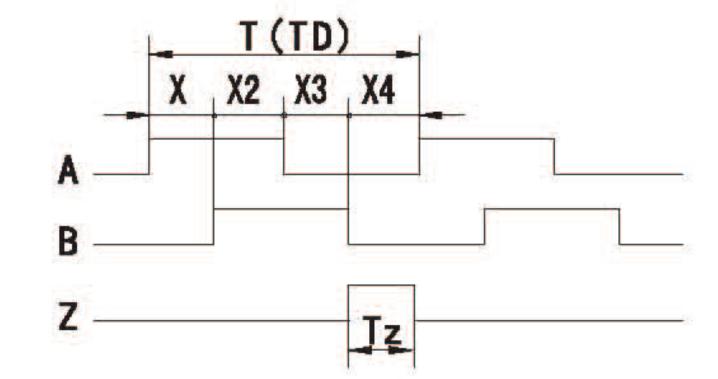
Measure the distance, angle, position, acceleration

molding machines, packing machines, machine tool and other digital control equipment.

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Output waveform

90° Output phase difference, CW rotation (CW rotation as seen from fit surface)



Square-wave accuracy: $X_1+X_2=1/2T \pm 1/12T$ $X_3+X_4=1/2T \pm 1/12T$

Pitch error of period: ± 0.01T Pitch error of phase position: ≤ 1/18T Z phase: Tz =1/4T (1T, 1/2T, 1/4T···)

Terminal assignment

Period of pulses: T=360° /N (N : output pulses)
Signal accuracy: Xn=1/4T ± 1/12T (n=1, 2, 3, 4)

A leads B clockwise when viewing the encoder shaft end, The position of Z phase against A, B phase is not specified.



TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICA	HONS				
Output wave	Square wave				
Output signals	A, B, Z,(Line driver output A, A, B, B, Z, Z phas				
Current consumption	≤150mA				
Response Frequency	0~100KHz				
Output phase difference	90° ± 45°				
Supply voltage	5V DC, 5-12V DC, 12-24V DC				
Signal level	V _H ≥85%Vcc, V _L ≤0.3V				
Number of pulses	100, 120, 125, 150, 180, 200, 250, 256, 300, 360, 400, 500, 512, 600, 720, 800, 900, 1000, 1024, 1200, 1800, 2000, 2048, 2500(Other number of pulse available on request)				
Output circuit	Open collector NPN, Push pull, Line driver, Voltage				
MECHANICAL SPECIFIC	ATIONS				
Speed without sealing	6000rmp				
Rotor moment of inertia	Appr. 6.0x10 ⁻⁶ Kgm ²				
Starting torque without sealing	≤5.0x 10 ⁻³ Nm (+25°C)				
Maximum load permitted on shaft	Radial 35N, Axial 25N				
Shock resistance	980m/s², 6ms, 2 times each on XYZ				
Vibration proof	50m/s², 10~200Hz, 2 hours each on XYZ				
Working life	MTBF≥25000h (+25°C, 2000rpm)				
Weight	Appr. 210g (with 1 meter cable)				
ENVIRONMENTAL SPEC	IFICATIONS				
Working humidity	30~85% (No condensation)				
Storage temperature	-40°C~100°C				
Working temperature	-25℃~85℃				
Protection class	IP54				

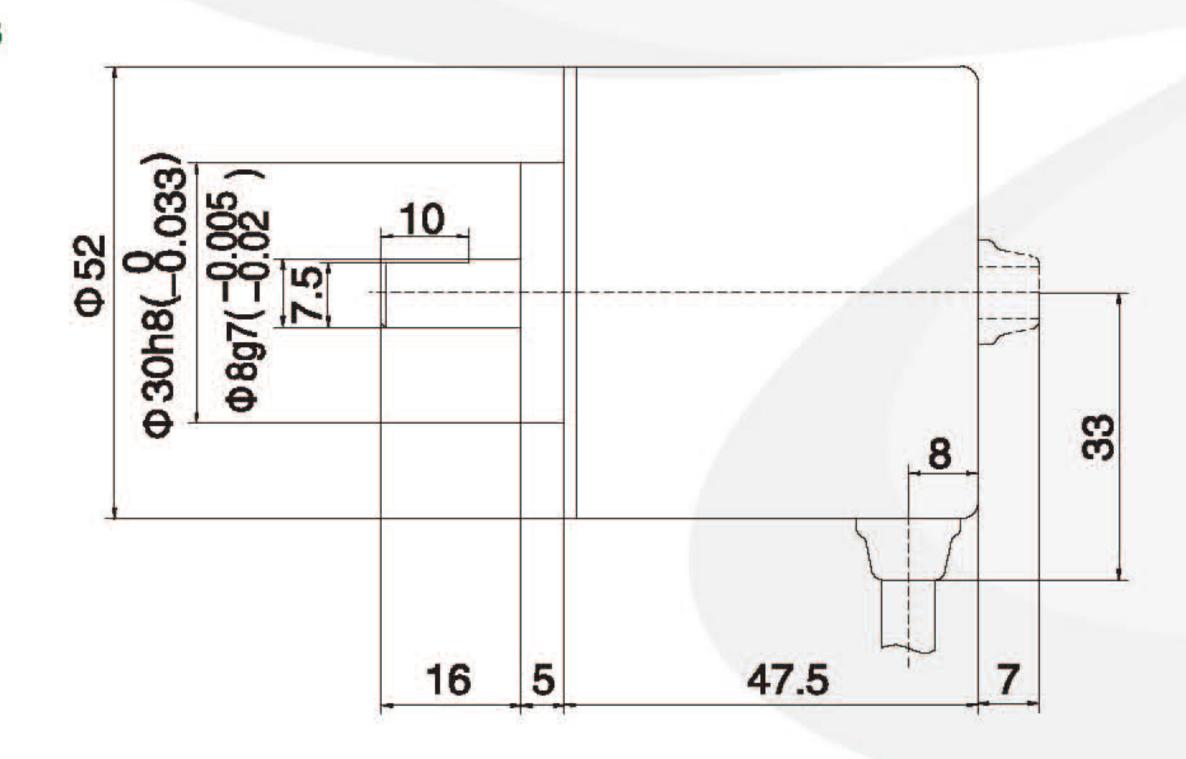
Signal	+5V	0V	SIGA	SIG A	SIG B	SIG B	SIG Z	SIG Z	Shield
Cable Color	Red	Black	Green	Brown	White	Grey	Yellow	Orange	N.C

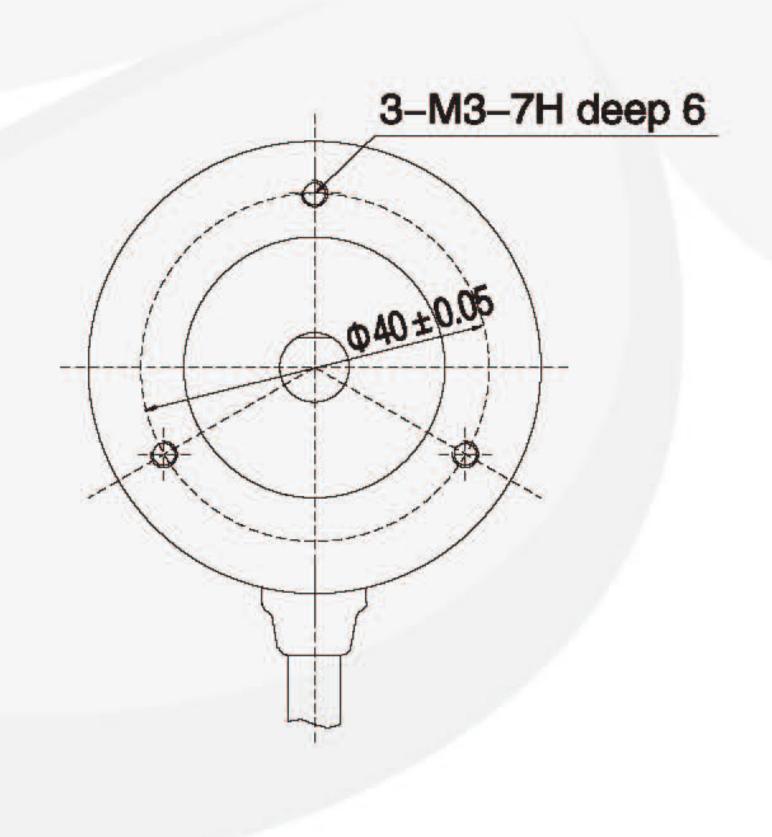
Ordering code

ISC5208	- G01	G	1024	BZ1 -	12-24	C
Series	Sequence	Connection	Number	Output	Supply	Output
	Number		of Pulses	Signals	Voltage	Circuit

Series: ISC5208, Radial cable: G, Number of pulses: 1024 p/r, Output signals: ABZ, Tz=1T, Supply voltage: 12-24V DC, Output circuit: Open collector NPN, Record: ISC5208-G01G1024BZ1-12-24C

Dimensions







X ISA5208 SERIES

Shaft diameter Φ8 mm, clamping flange, housing diameter Φ52 mm.

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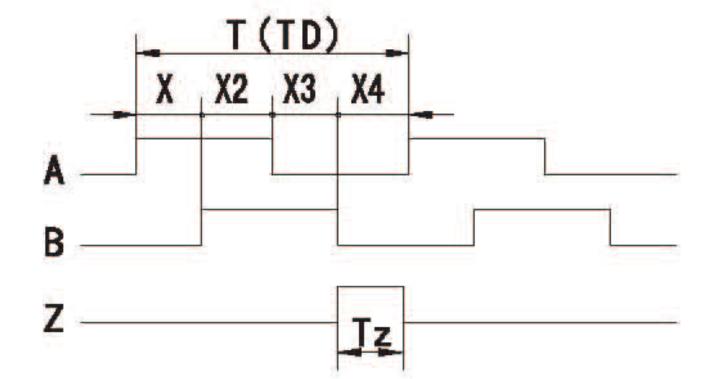
Applications:

Suitable for measuring the length or speed of target by wheel type. The circumference of wheel has three types: (S1=200mm, S2=204mm, S3=300mm)

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Output waveform

90° Output phase difference, CW rotation (CW rotation as seen from fit surface)



Square-wave accuracy: $X_1+X_2=1/2T \pm 1/12T$ $X_3+X_4=1/2T \pm 1/12T$

Pitch error of period: ± 0.01T

Pitch error of phase position: ≤1/18T Z phase: Tz =1/4T (1T, 1/2T, 1/4T···)

Period of pulses: T=360° /N (N : output pulses)
Signal accuracy: Xn=1/4T ± 1/12T (n=1, 2, 3, 4)

A leads B clockwise when viewing the encoder shaft end, The position of Z phase against A, B phase is not specified.



TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICA	TIONS				
Output wave	Square wave				
Output signals	A, B, Z,(Line driver output A, A, B, B, Z, Z phase)				
Current consumption	≤150mA				
Response Frequency	0~100KHz				
Output phase difference	90° ± 45°				
Supply voltage	5V DC, 5-12V DC, 12-24V DC				
Signal level	V _H ≥85%Vcc, V _L ≤0.3V				
Number of pulses	120,200,250,300,360,400,500,600, 740,800,900,1000,1024,1200,1500, 1800,2000,2048,2500,3000,3600 (Other number of pulse available on request				
Output circuit	Open collector NPN, Push pull, Line driver, Voltage				
MECHANICAL SPECIFIC	ATIONS				
Speed without sealing	5000rmp				
Rotor moment of inertia	Appr. 7.5x10 ⁻⁶ Kgm ²				
Starting torque without sealing					
Maximum load permitted on shaft	Radial 75N, Axial 50N				
Shock resistance	980m/s², 6ms, 2 times each on XYZ				
Vibration proof	50m/s², 10~200Hz, 2 hours each on XYZ				
Working life	MTBF≥25000h (+25°C, 2000rpm)				
Weight	Appr. 440g (with 0.5 meter cable)				
ENVIRONMENTAL SPEC	IFICATIONS				
Working humidity	30~85% (No condensation)				
Storage temperature	-30℃~85℃				
Working temperature	-10℃~70℃				
Protection class	IP54				

Terminal assignment

Signal	+5V	OV	SIGA	SIGA	SIG B	SIG B	SIG Z	SIGZ	Shield
Cable Color	Red	Black	Green	Brown	White	Grey	Yellow	Orange	N.C

Ordering code

ISA5208 -	401	G	300	BZ1 -	- 5	Les .
Series	Sequence	Connection	Number of Pulses	Output	Supply Voltage	Output

Series: ISA5208, Radial cable: G, Number of pulses: 300 p/r, Output signals: AABBZZ, Tz=1T, Supply voltage: 5V DC, Output circuit: Line driver, Record: ISA5208-401G300BZ1-5L

Dimensions

