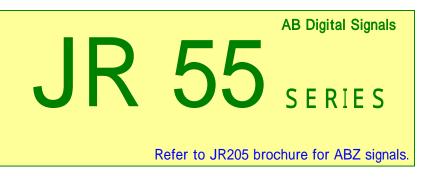






Magnetic Rotary Encoder - Solution for harsh environment. Compact, flat design, easy direct mounting on a shaft.

Magnetic Rotary Encoder





Features

Easy direct mounting on motor shaft without coupling.

No adjustment like difficult shaft alignment is required for mounting.

Magnetic encoder exceeds optical encoder in resistance against harsh environment.

Strong resistance against vibration and shock...

Extended line-up JR55 and JR205 series to meet wide range applications.

Conforming to EC Directive to be accepted in European market also.

TAIHO PRODUCT CO., LTD.

wigh reliability, that's a must for an encoder, now you got it....now you got it.....now you got it.....

Output waveforms

a | b d

Output specification

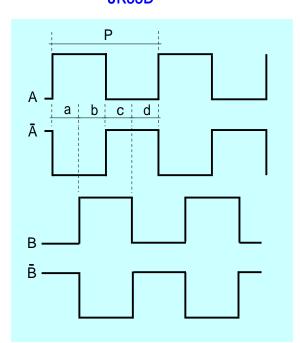
$$a,b,c,d = P/4 \pm P/8$$

$$0.4 \quad (a+b)/(a+b+c+d) \quad 0.6$$

P = 1 pulse (elec. 360 °) = 1/pulse number per

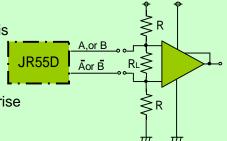
P/10 Absolute pitch error

JR55D

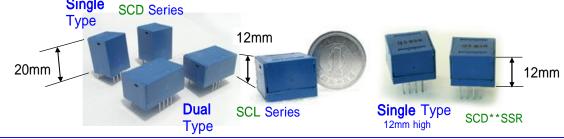


Clockwise direction viewed from mounting bracket side is supposed to be the ordinary revolution.

In the case of D type, current consumption and "signal rise and fall times" are measured with the receiving circuitry shown at the right.



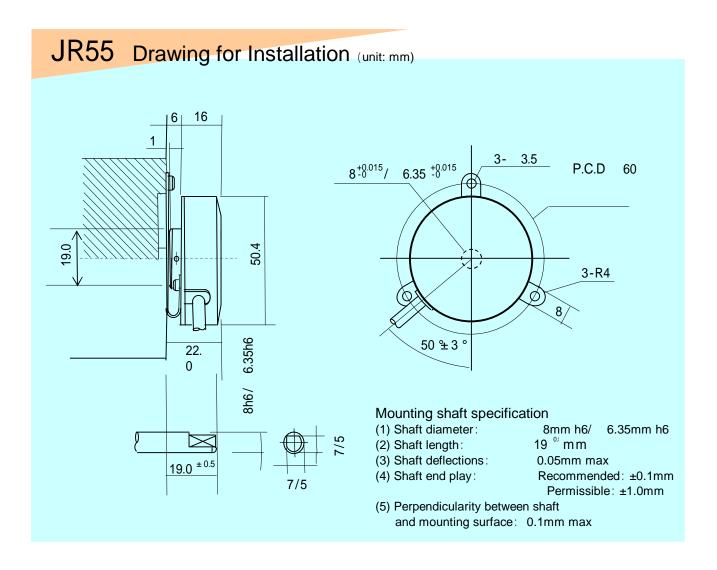


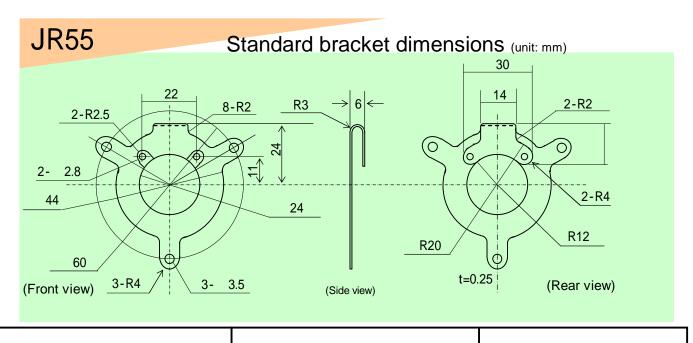


Line-up to meet wide range applications, Line-up to meet wide range applications, Figh temperature resistance, fast response speed, High temperature resistance, fast response speed, Sine circles

Specification

Model Specification	JR55A	JR55C	JR55D
Resolution pulse per revolution	300, 360, 500, 600 ppr		
Input voltage	DC4.75V - 26.4V at the end of standard cable	JR55C : DC 4.75V - 5.25V JR55-12C: DC 4.75 - 13.2V JR55-24C: DC21.6 - 26.4V at the end of stndard cable	DC4.75V-5.25V at the end of standard cable
Current consumption	DC13.2V, 30mA max. DC26.4V, 60mA max.		DC5.25V, 90mA max. refer to the left page bottom
Output signals	A, B phases		A, A, B, B phases
Output types	Open collector (positive logic)	Voltage output (positive logic) (output pull-up resistance: $2k\Omega$)	Line driver output
Circuitry withstanding voltage	+30 V max.		
Sink current	20 mV		
Frequency response	Electric Circuitry 0 ~ 100kHz, Actual max. is 60kHz in the case of 600ppr x 6000rpm.		
Signal rise and fall	1μsec. max.		1µsec. max. refer to the left page bottom
Operating temperature	-10 ~ +80 No dew condensation permit		
Storage temperature	-30 ~ +85		
Permissible vibration	1 hour each in X,Y, and Y directions under 50Hz/10G's		
Permissible shock	3 times in X,Y and Z directions under 100G/11msec.		
Starting torque	30g•cm max.		
Permissible shaft load	Radial direction :1Kg, Axial direction : 0.5N		
Moment of inertia	40g∙ cm² max.		
Slew speed	6000rpm		
Hollow shaft bore	8.00mm / 6.35mm		
Standard cable length	500mm		
Weight	100g (including mounting bracket, dust cap and standard cable)		





Marketed by ASTEC Co., LTD.

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Manufactured by

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