

**PART NUMBER:** JR55-24AXXXXXXX**DESCRIPTION:** incremental hollow-shaft encoder**ELECTRICAL SPECIFICATIONS**

output waveform	Square wave
output signals	A, B phase
current consumption	30 mA
output voltage	H: Vcc-1V, L: 0.5 V
supply voltage	4.75 ~ 26.4 V dc
output capacity	30V, 20 mA max.
output resolution (ppr)	300, 360, 500, 600
frequency response	70 kHz max.

MECHANICAL SPECIFICATIONS

max shaft load,	axial: 0.5 kgf radial: 1.0 kgf
moment of inertia	40 g•cm ²
angular acceleration	1 x 10 ⁵ rad/S ²
slewing speed	6000 RPM max.
starting torque	30 gf•cm max.
rotational life	1 x 10 ⁸ rad/S ²

ENVIRONMENTAL SPECIFICATIONS

operating temp	-10° to +80° C
storage temp	-30° to +85° C
humidity	85% RH, no condensation
vibration	10 G @ 50 Hz., 2 hours, 3 axis
shock	100 G, 11 ms, 3 axis, 3 rep.

ORDERING INSTRUCTIONS

JR55-24AXXXXXXX

Output type:
Open collector output

Resolution:
0300 = 300PPR
0360 = 360PPR
0500 = 500PPR
0600 = 600PPR

Bore ø:
S = 6.35mm (.25")
C = 8mm (.315")

Bracket type:
(A, C, or D)

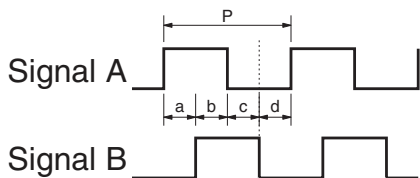
Braid shield:
F = Grounded frame
N = Non-grounded frame

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OUTPUT WAVEFORM

Clockwise rotation viewed from front



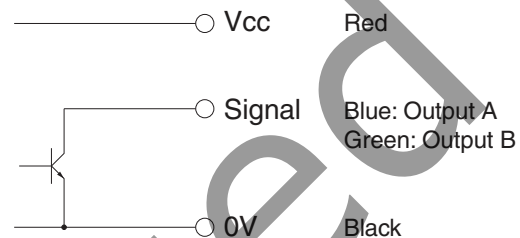
$$P = \frac{1}{P/R}$$

$$0.4 \frac{(a+b)}{(a+b+c+d)} \leq 0.6$$

$$a, b, c, d = \frac{P}{4} \pm \frac{P}{8}$$

$$\frac{P}{2} h < \frac{3P}{2} \quad \text{Absolute value of pitch error} - P/10$$

OUTPUT CIRCUIT



MECHANICAL DRAWING

