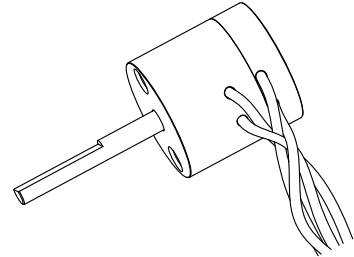


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Specifications 1/2

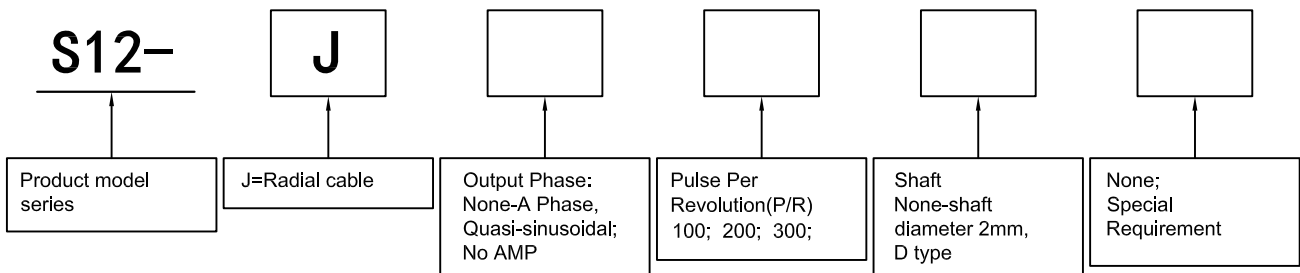
■ Quasi-sinusoidal (Solid Shaft)

- Feature: Microminiature, logical compact Configuration and easy to install
- Application: Automation Control, such as Small instrument, Counting machine, etc
- External dimensions: External diameter $\varnothing 12\text{mm}$, thickness 12mm, shaft diameter 2mm (D type)
- Resolution: Up to 300P/R
- Supply Voltage: DC5V
- Protection: IP40
- Cable Length: 100mm
- Weight: about 10g

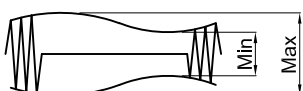
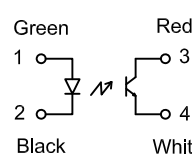
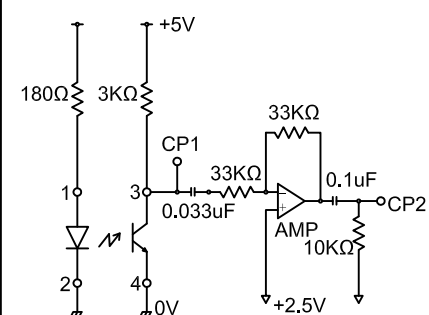


■ Model Guide

- Model form (filled required parameters in the box as following)
- Power supply voltage: DC5V (Measurement Circuit)



■ Output Mode

Output wave form	Output Circuit	Measurement Circu Example	Connection
<p>Quasi-Sinusoidal</p>  <p>Output Signal Level: 100-200P/R=$S_{min} \geq 0.15\text{V}$; 300P/R=$S_{min} \geq 0.10\text{V}$; Amplitude Variation: 100-200P/R=$(S_{max}/S_{min}-1) \times 100 \leq 40\%$; 300P/R=$(S_{max}/S_{min}-1) \times 100 \leq 50\%$;</p>		 <p>Frequency Characteristics: 3KHz (at constant speed)</p>	<p>1=Green=Anode 2=Black=Cathode 3=Red=Collector 4=White=Emitter</p>

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■ Electrical Characteristics

Item	Parameter	
	100-200P/R	300P/R
Supply voltage	DC+5V±5% (Measurement Circuit)	
Consumption current	50mA Max	
Output wave form	Quasi-sinusoidal	
Output Signal	150mVp-p minimum	100mVp-p minimum
Output Signal Amplitude variation	40% maximum	50% maximum
Output Phase	A Phase	
Frequency Characteristics	3KHz(at constant speed)	
Light Source	LED	

■ Mechanical Characteristics

Item	Parameter
Starting torque	0.05 mN-m(0.5gf.cm) maximum
Inertia moment	0.01 g-cm ² maximum
Shaft load	Radial 1.9N(200gf) maximum
	Axial 4N(500gf) maximum
Top rev	3000/min (maximum)
Environmental temperature	Operating:-10~+70°C; storage:-20~+85°C
Environmental humidity	Operating and storage: 35-85%RH(noncondensing)
Material	Main body: aluminium alloy; Shaft: 304
Weight	About 10g

■ Basic Dimensions

