

Orientalmotor

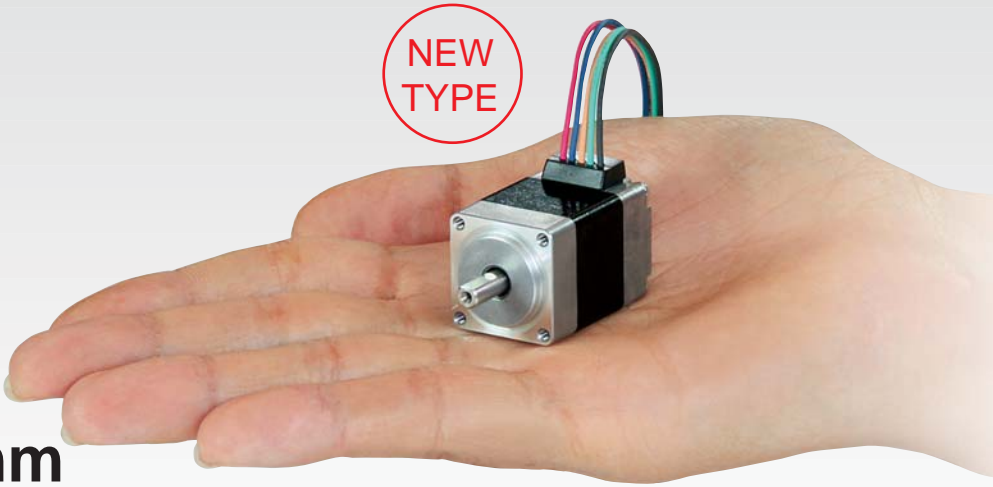
(RoHS) RoHS-Compliant

2-Phase Stepping Motor

PK Series

High-Torque Type

Frame Size **20 mm**



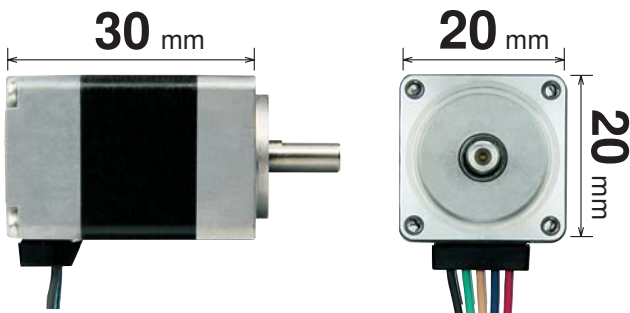
Oriental Motor launches a new 2-Phase stepping motor with 20 mm frame size. The new type offers a small and lightweight body combined with high torque technology.

Features

Very small and lightweight

With 20 mm frame size and 50 g mass the new type is the smallest motor of the **PK Series** and is perfectly made for applications with few space.

Actual Size



Mass **50 g**

High-Torque

This 2-Phase stepping motor adopts Oriental Motor's high torque technology.

Maximum Holding Torque

Model	Connection Type	Maximum Holding Torque
PK213PD□	Bipolar	0.020 N·m
PK213P□	Unipolar	0.014 N·m

Product Lineup

Bipolar 4 Leads

Model (Single Shaft)	Model (Double Shaft)
PK213PDA	PK213PDB

Unipolar 5 Leads

Model (Single Shaft)	Model (Double Shaft)
PK213PA	PK213PB

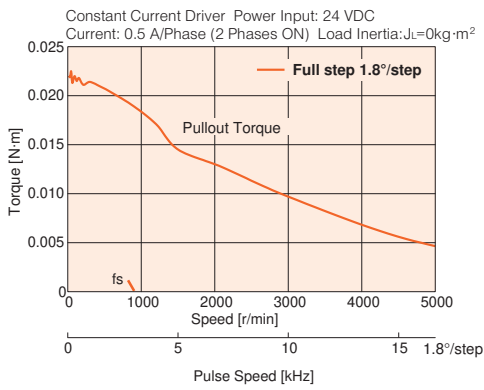
Specifications **(RoHS)**

Model		Holding Torque N·m	Rotor Inertia J:kg·m ²	Rated Current A/Phase	Voltage V	Resistance Ω/Phase	Basic Step Angle	Motor Mass kg
Single Shaft	Double Shaft							
PK213PDA	PK213PDB	0.02	1.6×10 ⁻⁷	0.5	4.25	8.5	1.8°	0.05
PK213PA	PK213PB	0.014	1.6×10 ⁻⁷	0.5	4.25	8.5	1.8°	0.05

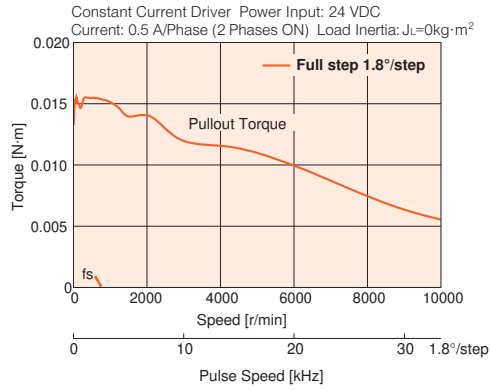
Speed-Torque Characteristics

fs: Maximum Starting Frequency

Bipolar 4 Leads



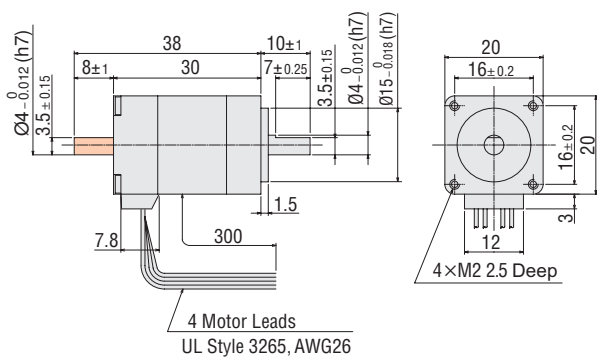
Unipolar 5 Leads



Dimensions (Unit = mm)

Bipolar 4 Leads

Mass: 0.05 kg



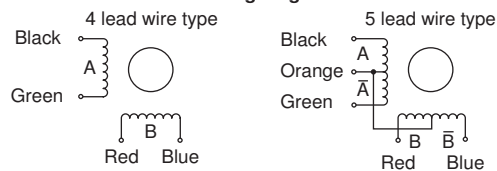
- These dimensions are for double shaft models.
- For single shaft models, ignore the orange () areas.
- For available driver please contact the nearest sales office.

Connection

PK21□P

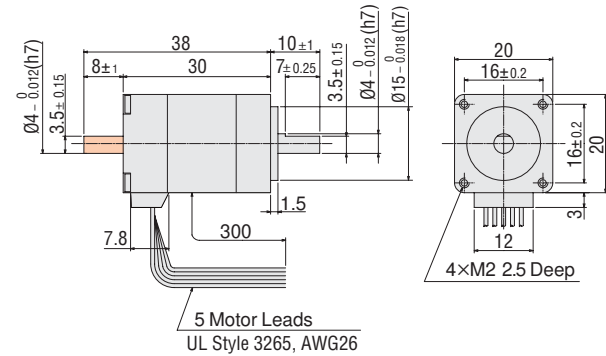
Connect the motor according to the wiring diagram.

Wiring diagram



Unipolar 5 Leads

Mass: 0.05 kg



This product is manufactured at a plant certified with the international standards **ISO 9001** (for quality assurance) and **ISO 14001** (for systems of environmental management).

Specifications are subject to change without notice.

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