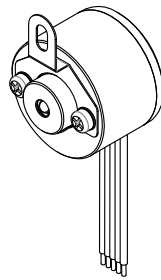


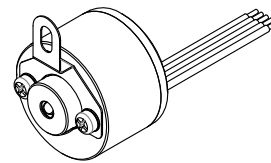
K18 Specifications 1/3

■ Incremental Type (Hollow shaft, blind hole)

- Feature: microminiature, logical compact configuration and easy to install
- Application: subminiature motor, small instrument, etc, for automation control
- External dimensions: external diameter Ø18mm, thickness 15.3mm, diameter of shaft Ø2.5mm
- Resolution: up to 1600P/R
- Supply voltage: DC5V; DC8-30V
- Protection: IP50
- Cable length: 150mm
- Weight: 20g



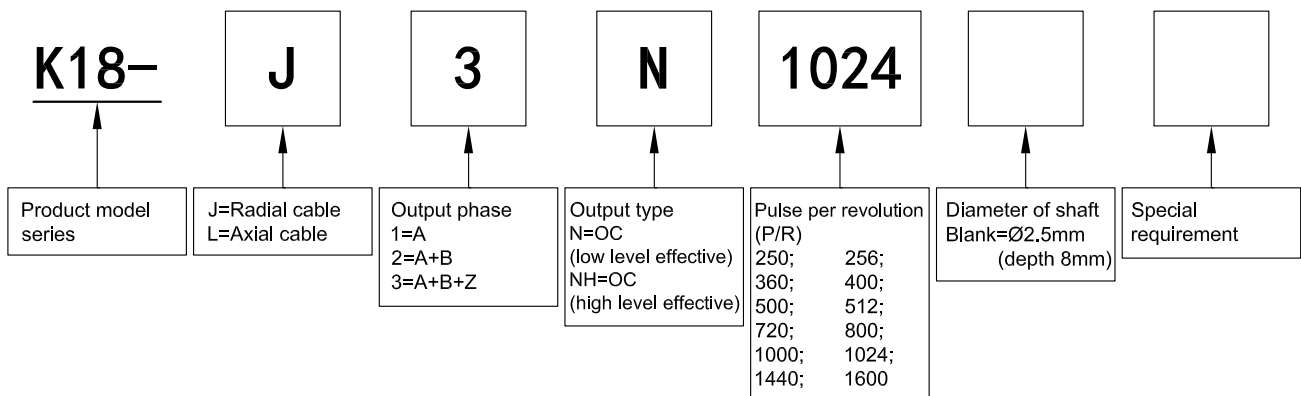
K18-J



K18-L

■ Model Guide

- Model form (filled required parameters in the box as following)
- Must choose supply voltage: DC5V; DC8-30V
- leaf spring Please refer to accessory at specifications 2/2



K18 Specifications 2/3

Output Mode

Output type	Output circuit	Output wave form	Connection
OC		<p style="text-align: right;">a.b.c.d=$\frac{T}{4} \pm \frac{T}{8}$</p> <p style="text-align: right;">Phase A is ahead of B by $\frac{T}{4} \pm \frac{T}{8}$, rotation direction CW (Viewing from shaft end, direction is clockwise rotation)</p> <p style="text-align: right;">CW direction \rightarrow</p>	<p>1=red=DC5V; DC8-30V</p> <p>2=black=OV</p> <p>3=white=A</p> <p>4=green=B</p> <p>5=yellow=Z</p>

Electrical Characteristics

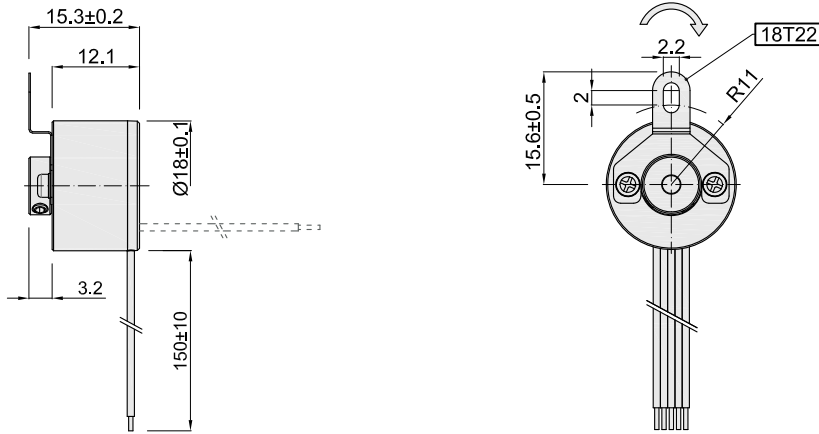
Supply voltage	DC+5V±5%; DC8V-30V±5%
Consumption current	50mA Max
Output form	OC Input current: ≤30mA Residual voltage: less than 0.5V
Rise,Fall time	100nsec Max
Top response frequency	100kHz Max
Output phase difference	Phase A is ahead of B by 90°±45°

Mechanical Characteristics

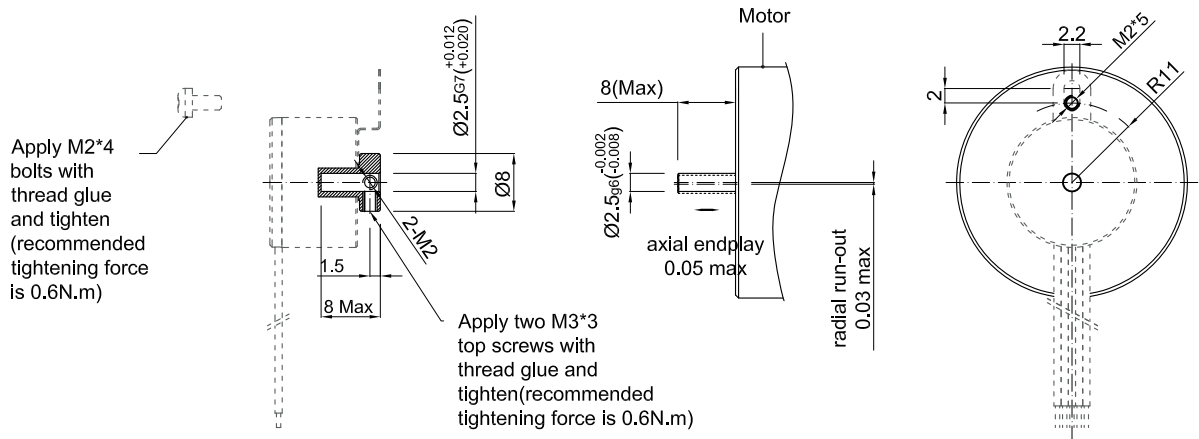
Starting torque	Less than 5×10^{-4} N·M
Inertia moment	Less than 0.3×10^{-6} kg·m ²
Shaft load	Radial : 2N; axial : 2N
Top rev	5000 rpm
Environmental temperature	Operating: -10~+70°C; storage: -15~+75°C
Environmental humidity	Operating and storage: 35~85%RH (noncondensing)
Vibration (endure)	Amplitude 0.75mm, 10~50Hz, 1h for X,Y,Z direction individually
Shock (endure)	49m/s ² , three times for X,Y,Z direction individually
Material	Main body: aluminium alloy shaft: 304
Weight	About 20g (with package)

K18 Specifications 3/3

Basic Dimensions

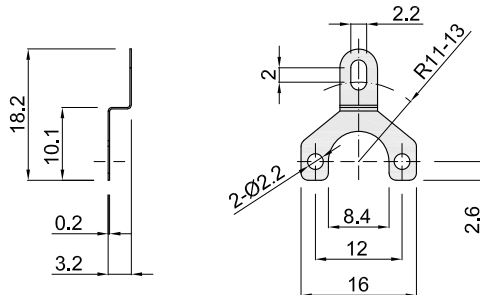
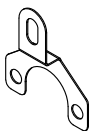


Assembling requirement

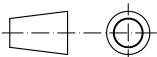


Accessory (Need purchase additionally)

18T22
No:3700144



Unit: mm



18T22 = Leaf Spring

= Rotate direction of signal output shaft