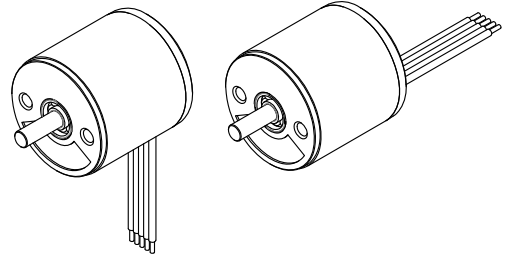


S18

Specifications 1/2

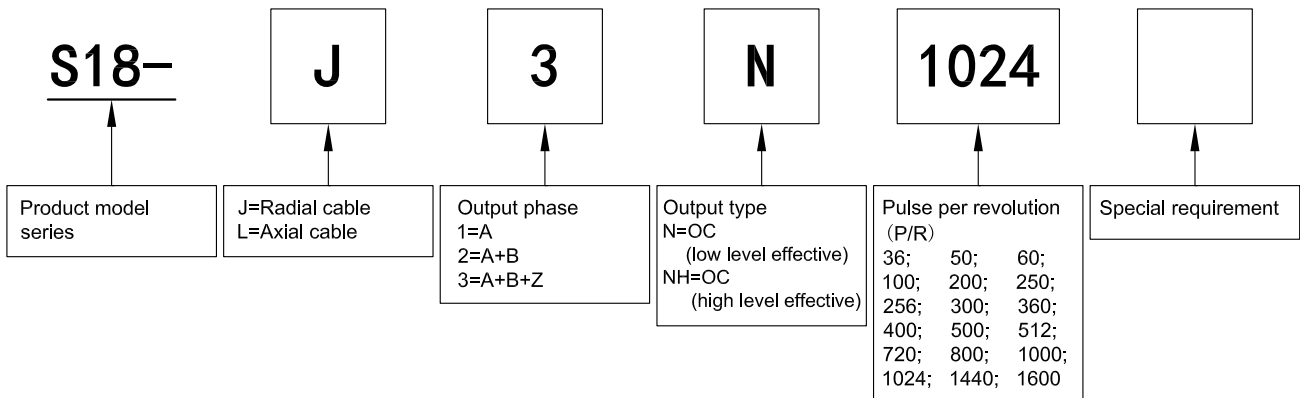
Incremental Type (Solid shaft)

- Feature: microminature, logical compact configuration and easy to install
- Application: subminiature motor, small instrument, etc, for automation control
- External dimensions: external diameter $\varnothing 18\text{mm}$, thickness 18mm, diameter of shaft $\varnothing 2.5\text{mm}$
- Resolution: up to 1600P/R
- Supply voltage: DC5V; DC8-30V
- Protection: IP50
- Cable length: 150mm
- Weight: 20g

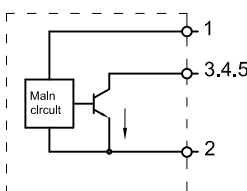
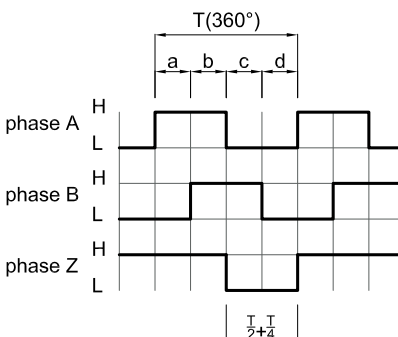


Model Guide

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



Output Mode

Output type	Output circuit	Output wave form	Connection
OC		 <p> $a.b.c.d = \frac{T}{4} \pm \frac{T}{8}$ 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) CW direction → </p>	1=red=DC5V; DC8-30V 2=black=OV 3=white=A 4=green=B 5=yellow=Z

S18 Specifications 2/2

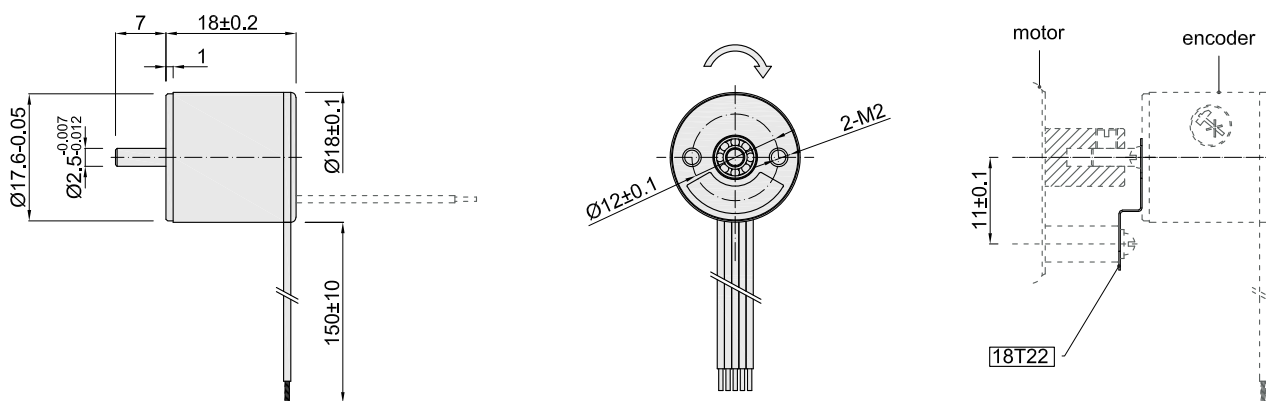
Electrical Characteristics

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°	

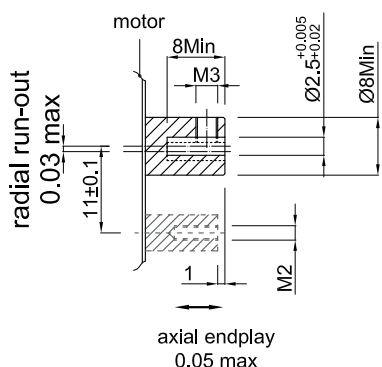
Mechanical Characteristics

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	3000 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)

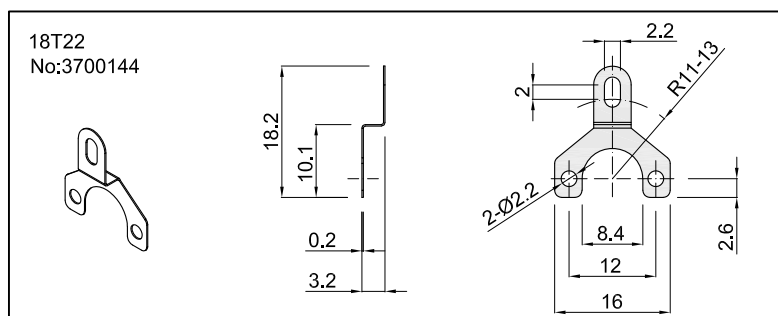
Basic Dimensions



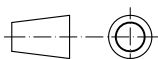
Assembling requirement



Accessory (Need purchase additionally)



Unit: mm



18T22 = Leaf Spring

= Rotate direction of signal output shaft