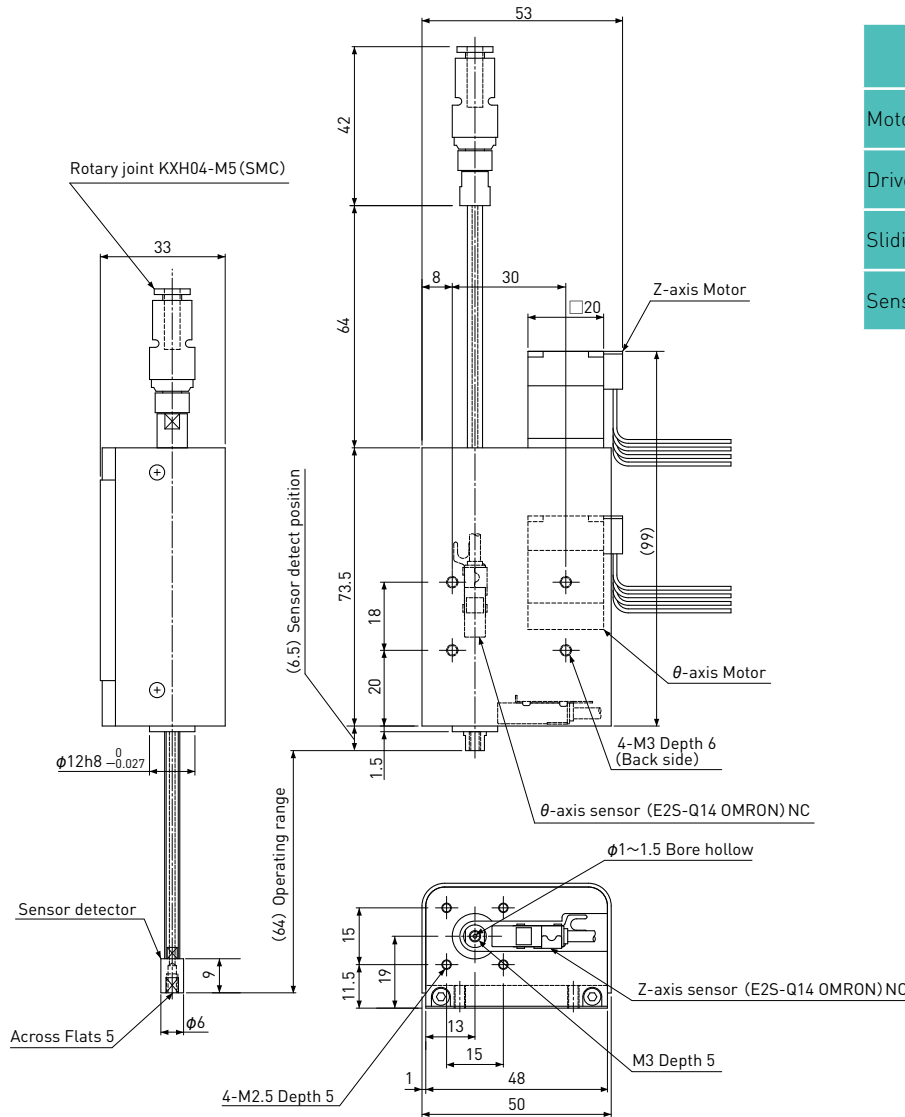


BD VZ 04-G 04 050 N 01

□20 2-phase Stepping Motor
Lead 4mm Travel 50mm



Parts List	
Motor	□20 Stepping Motor 0.5A/phase
Drive Screw	Ball Screw φ4 (Lead 4mm)
Sliding Guide	Ball Spline φ4mm
Sensor	Proximity Sensor E2S-Q14 (OMRON)

Motor(Z, θ -axis)

A	Black
Ā	Green
B	Red
B̄	Blue

UL3265,AWG26 (300mm)

Sensor(Z, θ -axis)

+12~24V	Brown
LS	Black
GND	Blue

1000mm

● Specifications ※The numbers in table below are reference. Detail dimensions will be provided by drawing.

Items	Z Axis	θ Axis
Movable Range	50mm	± 360°
Repeatability	±0.020mm	±0.03°
Resolution	10 μm (Full Step)	0.9° (Full Step)
Maximum Speed	80mm / sec	1080° / sec
Acceleration & Deceleration time	Min.0.2sec	Min. 0.04sec
Reference Thrust Force	5N	—
Maximun Permissible Moment	—	0.9 × 10 ⁻⁵ kg·m ² (※)
Reduction ratio	1/2	1/2
Mass	300g	
Operating Temperature	0~40°C (No Condensation)	

Reference of Moment of Inertia		
Dia.	Height	
	Aluminum	Steel
φ20mm	205mm (180g)	73mm (180g)
φ30mm	40mm (80g)	14mm (80g)
φ40mm	13mm (45g)	4.5mm (45g)

Precautions

- 1) The Z-axis does not have brake device. Please be careful when the power supply is switched off in case of Z-axis may free-fall.
- 2) Reference of Moment of Inertia table shows the theoretical values. KSS recommends that you should apply actual moment to the machine and confirm the safety operation before use.

※ For the Maximum Permissible Moment, see "Reference of Moment of Inertia" table above.