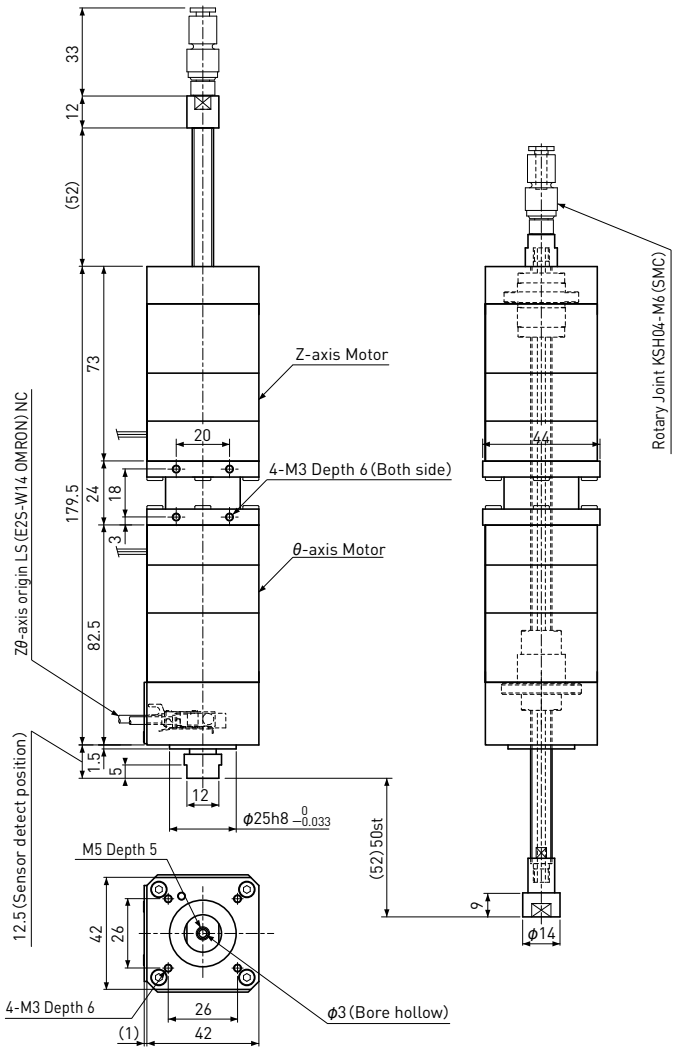
DDVZ42 - G10 - 050 N

□42 / NEMA 17 2-phase Stepping Motor
Lead 10mm Travel 50mm



Parts List	
Motor	NEMA 17 Hollow Stepping Motor 1.2A/phase
Drive Screw	Ball Screw φ8 (Lead 10mm)
Sliding Guide	Ball Spline φ8mm
Sensor (Linear, Rotary)	Proximity Sensor E2S-W14-1M (OMRON)

Motor (Z, θ -axis)

A	Black
$\overline{A}$	Green
B	Red
$\overline{B}$	Blue

UL1061, AWG24 (300mm)

Sensor (Z, θ -axis)

+12~24V	Brown
LS	Black
GND	Blue

1000mm

●Specifications

※The numbers in table below are reference. Detail dimmensions will be provided by drawing.

Items	Z Axis	θ Axis
Movable Range	50mm	± 360°
Repeatability	±0.010mm	±0.03°
Resolution	50μm (Full Step)	1.8° (Full Step)
Maximum Speed	200mm / sec	3 rev / sec
Maximum acceleration	1 m/sec²	150π rad/sec²
Reference Thrust Force	25N	—
Maximun Permissible Moment	—	0.15×10⁻³kg·m² (※1)
Mass	1150g	
Operating Temperature	0~40℃ (No Condensation)	

Reference of Moment of Inertia		
Dia.	Height	
	Aluminum	Steel
φ30mm	670mm (1300g)	240mm (1300g)
φ50mm	85mm (460g)	30mm (460g)
φ100mm	5mm (110g)	1.5mm (90g)

Precautions
1) The Z-axis does not have brake device. Please be careful when the power supply is switched off in case 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.

※1 For the Maximum Permissible Moment, see "Reference of Moment of Inertia" table above.
※2 For the technical information, see " Actuator Technical Description".