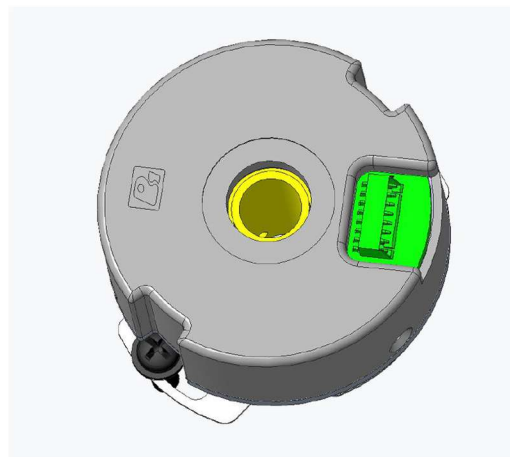
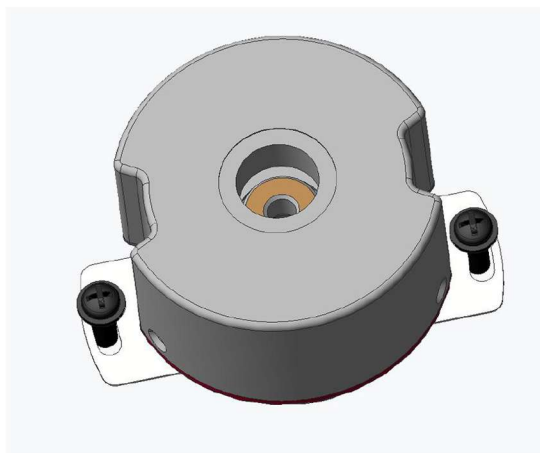




RZ Series Bearing Absolute

RZH4409A RZH4809A RZL4409A RZL4408A



Uses

This product is mainly used for servo-driven control system. Provide feedback information and auxiliary signals required by accurate position and speed control units for the system.

Features

- Working temperature -20 °C ~+105 °C
- Current consumption < 100mA
- Battery voltage 3.6V DC
- Battery fault voltage 2.5V
- Battery warning voltage 3.1V
- Differential output
- Single 5V Supply
- Rise/Fall time around 100ns
- Insulated resistance 50MΩ

Technical Parameters

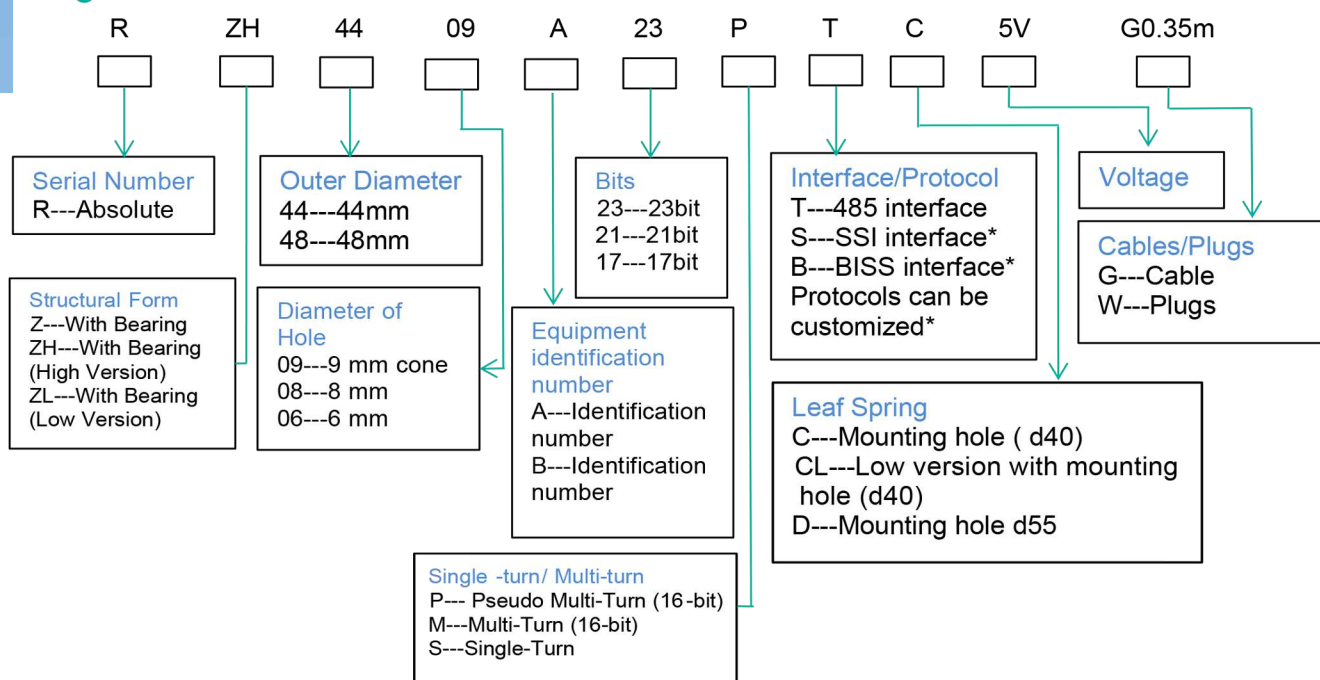
- Resolution 131072 (17bit) 8388608 (23 bit)
- 16 bits multi-turn resolution counter
- Absolute positioning accuracy $<\pm 50$ angular seconds
Note: The specific accuracy depends on the motor and mechanical assembly fit
- Repetition positioning accuracy $<\pm 3$ angular seconds
Note: The specific accuracy depends on the motor and mechanical assembly fit
- Battery voltage fault warning
- Interface RS485
- Communication frequency $\leq 16K$
- Baud rate 2.5MHz
- Enter allowable deviation of shaft
Axial: $\pm 0.5mm$ Radial: $\pm 0.02mm$ Dip angle: 0.1° Axial endplay: $< 0.1mm$ Radial runout: $< 0.01mm$
- Operation speeds of up to 6000rpm
- Shaft diameter: axis of a cone $\varnothing 9$ taper 1:10
- Moment of inertia $0.68kg \cdot mm^2$
- Rotor angular acceleration
During power supply $\leq 80000rad/s^2$
When battery powered $\leq 4000rad/s^2$
- Mechanicalshock
Impact acceleration $980m/s^2$
11ms.Impact 3 times in each direction, totally 18 times
- Vibrate
10 to 55Hz, keeping the amplitude of 1.5mm
Acceleration between 55and2000Hz is $98m/s^2$ XYZ 2hours per axial direction,6 hours intotal
- Working temperature $-20^\circ C \sim +105^\circ C$
- Relative humidity $\leq 90\%$ ($40^\circ C/21d$, based on EN 60068-2 -78) without condensation.
- Degree of protection IP40

RZ Series Bearing Absolute

Cable Definitions

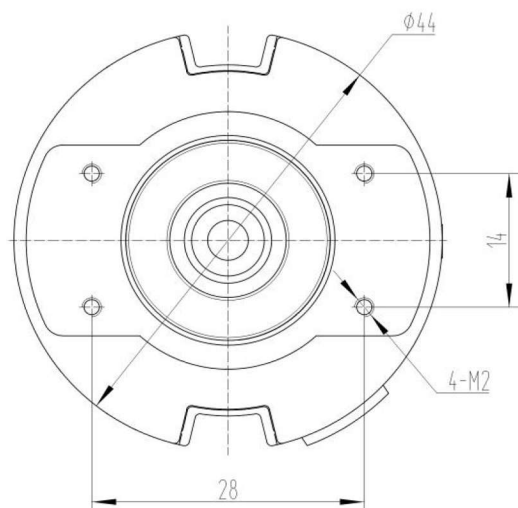
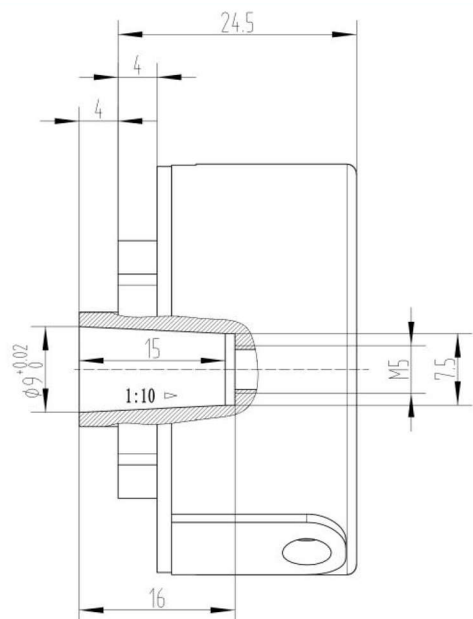
Cable Color	Red	Black	Blue	Yellow	Brown	White	Shielded Mesh
Signal Definition	5V	GND	485+	485-	Battery +	Battery GND	P

Ordering Information/Part Number

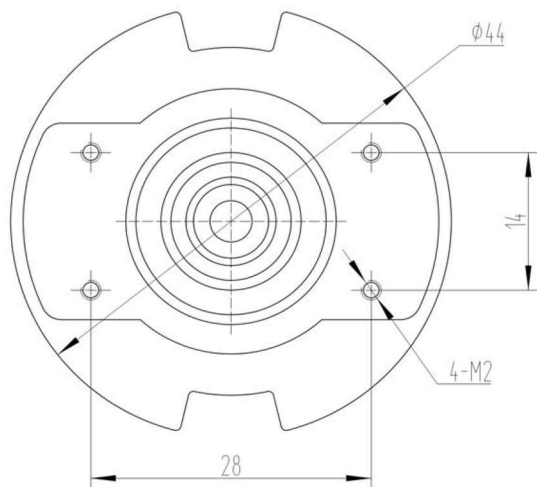
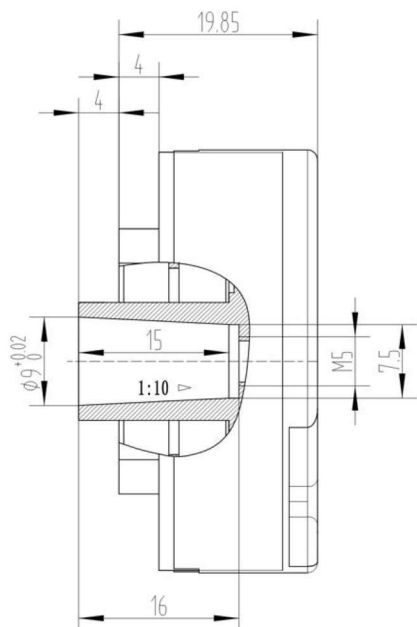


RZ Series Bearing Absolute

Mechanical Dimension

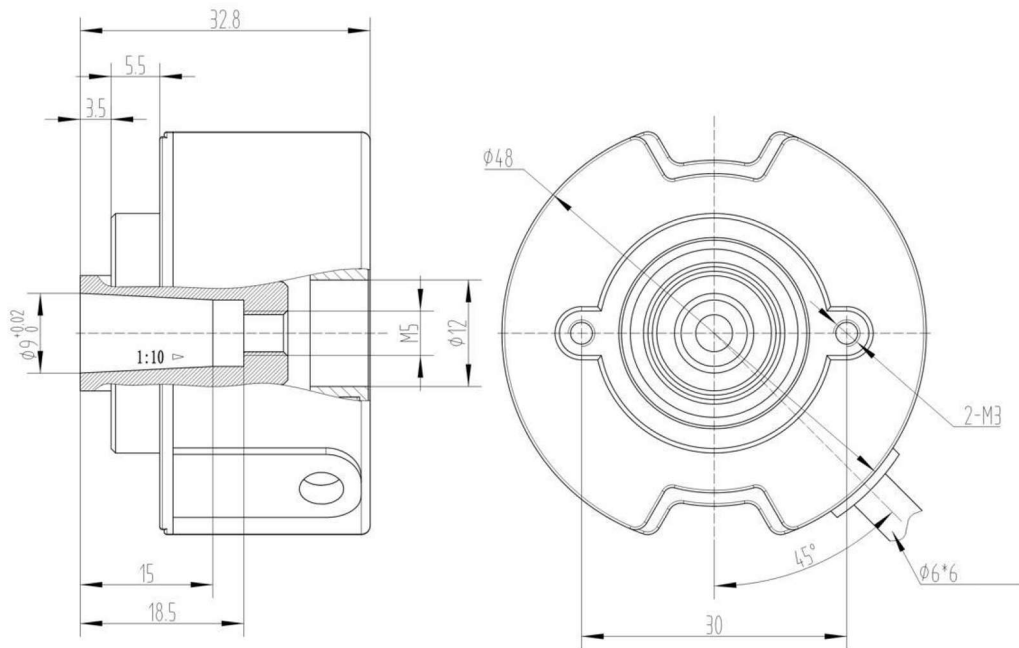


RZH4409A Mechanical Dimension Drawing

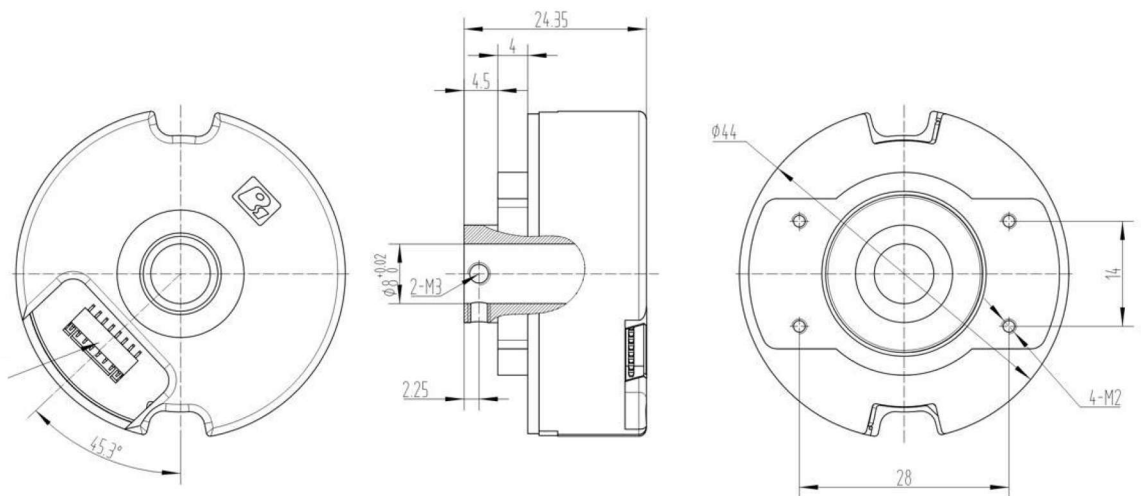


RZL4409A Mechanical Dimension Drawing

Mechanical Dimension



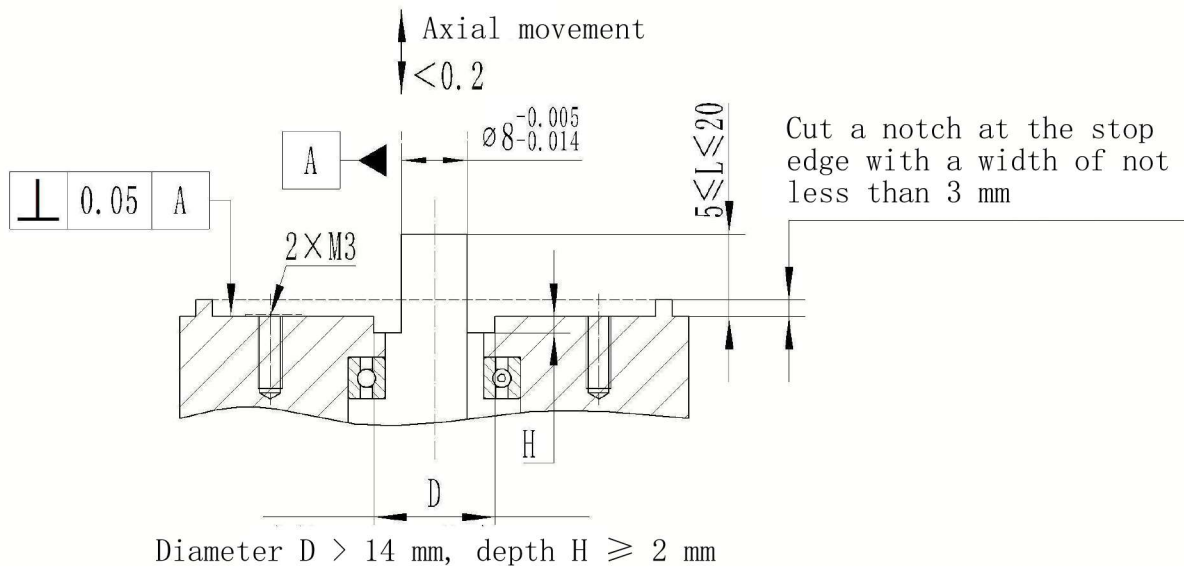
RZ4809A Mechanical Dimension Drawing



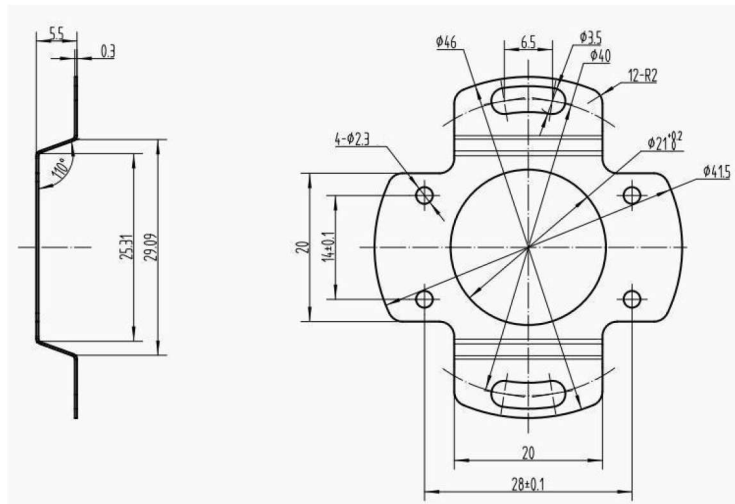
RZL4408A Mechanical Dimension Drawing

Mechanical Dimension

RZL4408A Recommended motor end dimensions:

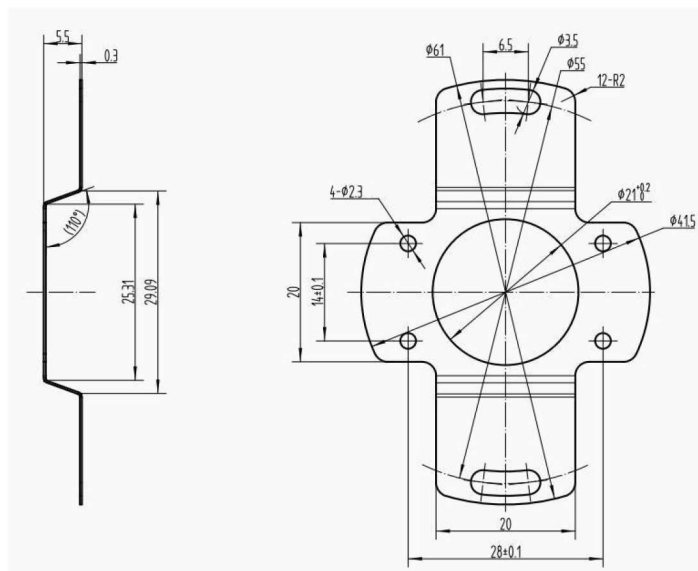


Note: Plate springs are selected according to the size of the motor end face

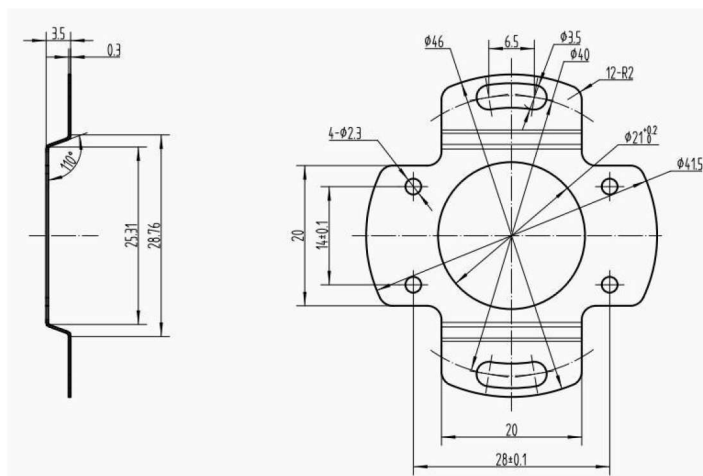


MP4409-002A-40 (C-type-mounting hole d40 Plate spring Mechanical dimension diagramplate sprin

Mechanical Dimension



MP4409-001A-55 (D-type-mounting hole d55) Plate spring Mechanical dimension diagramplate sprin



MP4409-003A-40 (CL-type-mounting hole d40) Plate spring Mechanical dimension diagramplate sprin