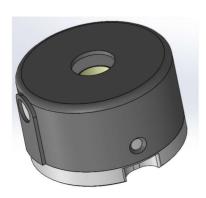
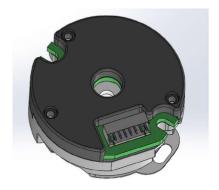




RZ35 Series Bearing Absolute Encoder



RZ35A09



RZ35D06

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 <±50 angular seconds

Note: The specific accuracy depends on the motor and mechanical assembly fit

 Repetition positioning accuracy <±3 angular seconds

Note: The specific accuracy depends on the motor and mechanical assembly fit

- Battery voltage fault warning
- Interface RS485
- Communication frequency ≤16K
- Baud rate 2.5MHz
- Enter allowable deviation of shaft Dip angle:0.1°Axial endplay:<0.1mm Radial runout:<0.01mm
- Operation speeds of up to 6000rpm

- Moment of inertia 0.21kg mm²
- Rotor angular acceleration
 During power supply ≤80000rad/s²
 When battery powered ≤4000rad/s²
- Mechanicalshock
 Impact acceleration 980m/s²
 11ms.Impact 3 times in each direction,
 totally 18 times

Vibrate

- 10 to 55Hz, keeping the amplitude of
 1.5mm

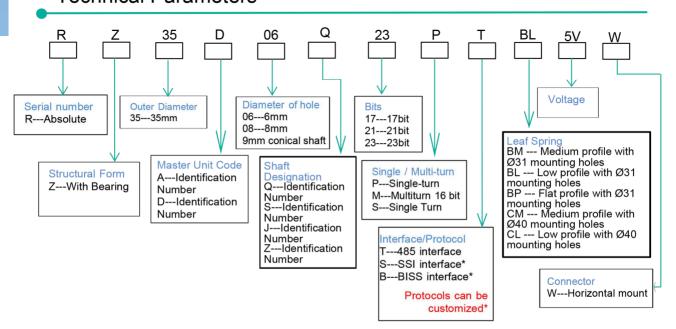
 Acceleration between 55 and
 2000Hz is98ms² XYZ 2 hours per axial
 direction.6 hours intotal
- Working temperature -20 °C ~+105 °C
- Relative humidity ≤90% (40°C/21d, based on EN 60068-2 -78) without condensation.
- Degree of protection IP40



Cable Definitions

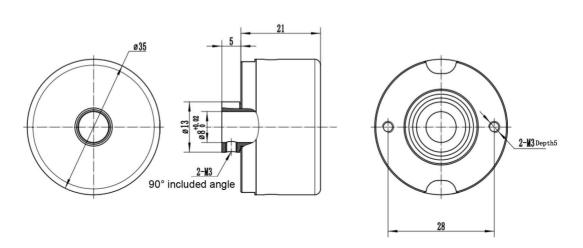
Pin Number	1	2	3	4	5	6	7	8
Signal Definition	5V	GND	485+	485-	Battery +	Battery GND	NC	PE
Cable Color	Red	Black	Blue	Yellow	Brown	White		Shielded Mesh

Technical Parameters

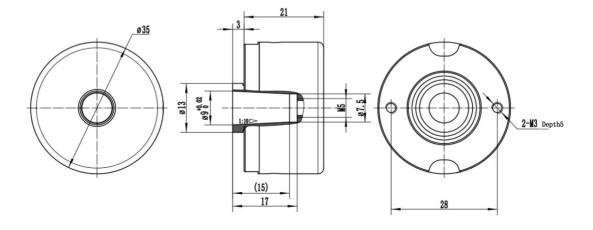


Note: 8mm straight shaft and 9mm conical shaft are only available at RZ35A.



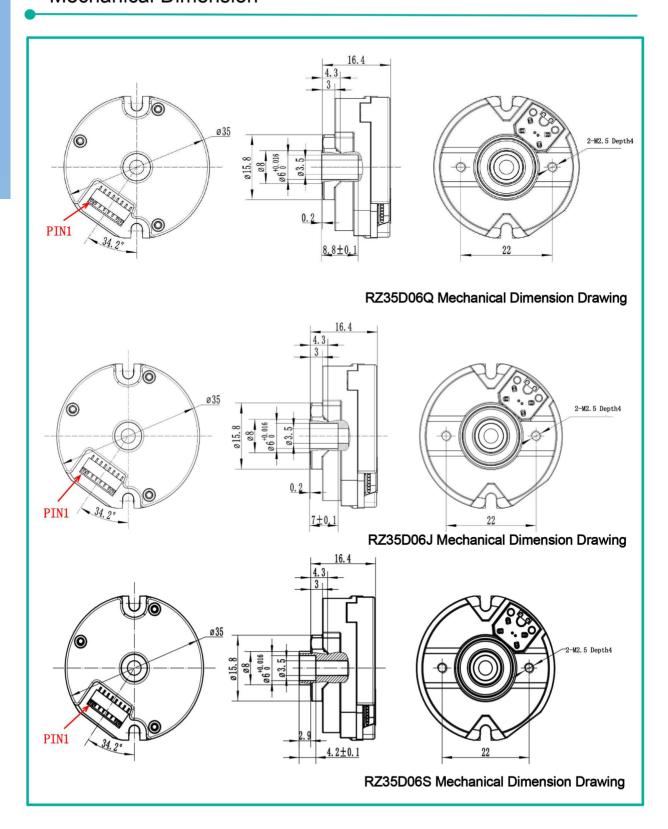


RZ35A08 Mechanical Dimension Drawing



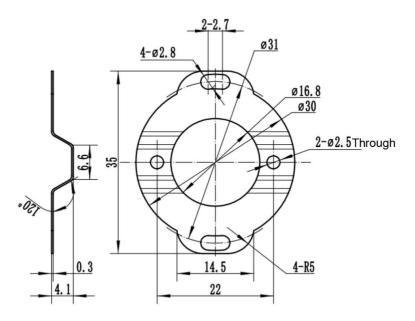
RZ35A09 Mechanical Dimension Drawing



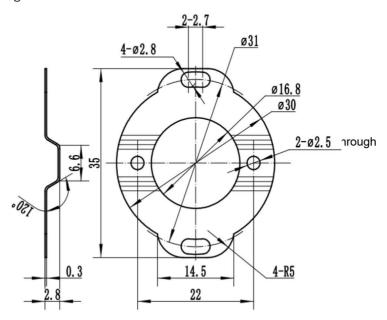




Note: Select leaf spring according to motor face dimensions.

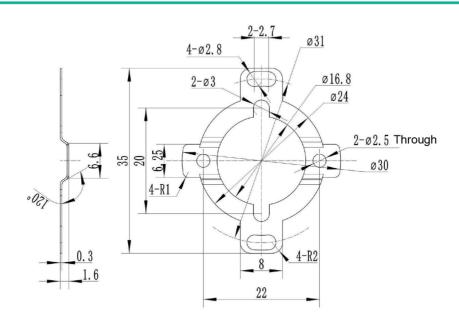


MP4131-704R (BM Type - Medium Profile with Ø31 Mounting Holes) Leaf Spring Mechanical Drawing

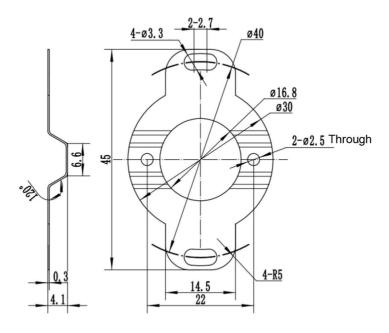


MP2831-704R (BL Type - Low Profile with Ø31 Mounting Holes) Leaf Spring Mechanical Drawing



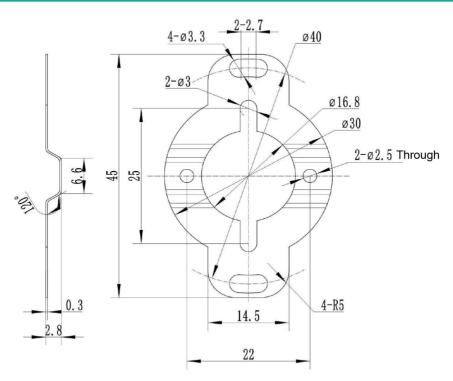


MP1631-704R (BP Type - Flat Profile with Ø31 Mounting Holes) Leaf Spring Mechanical Drawing



MP4140-704R (CM Type - Standard Profile with Ø40 Mounting Holes) Leaf Spring Mechanical Drawing





MP2840--704R (CL Type - Low Profile with Ø40 Mounting Holes) Leaf Spring Mechanical Drawing