

ABSOLUTE ENCODERS



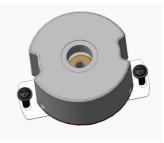
> RZ Series

APPLICATION

FEATURES

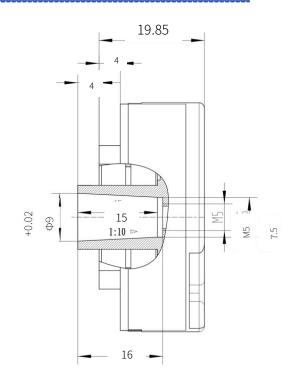
Servo motor control

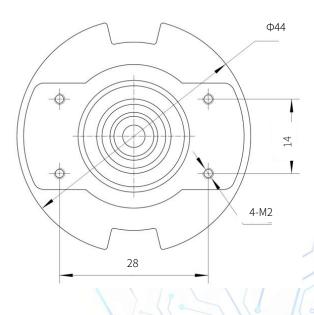
- Interface RS485.
- Provides resolution of up to 17 to 23 bits.
- 16-bit multi-turn counting capability.



• Absolute positioning accuracy within ±50 arc seconds.



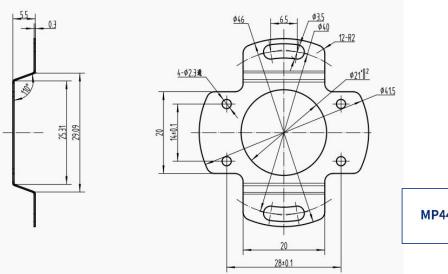






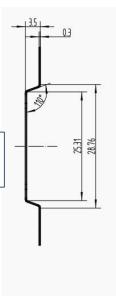
Spring Tab Size Selection

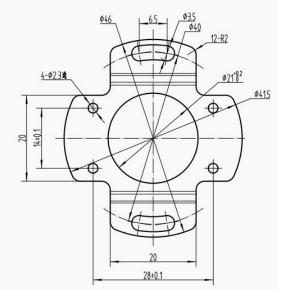


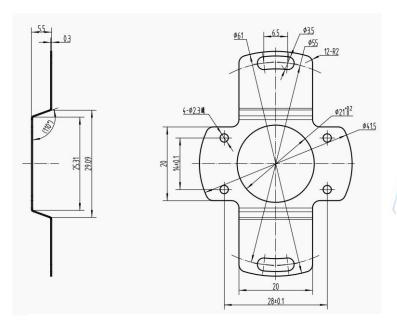


MP4409-002A-40 (C-Mounting hole d40)

MP4409-003A-40 (CL-Low type mounting hole d40)





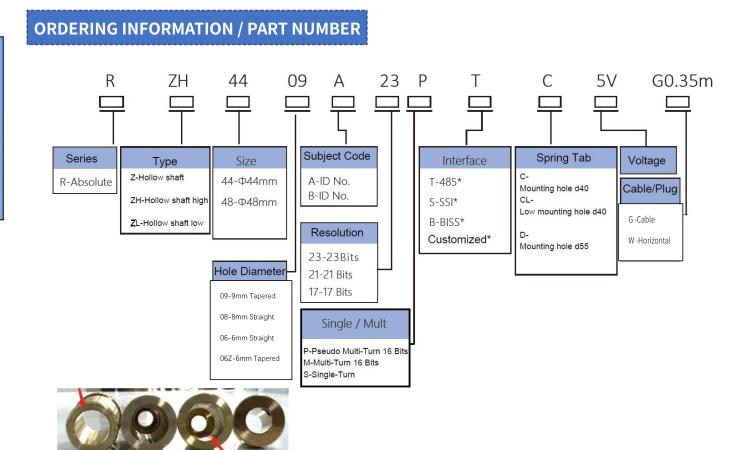


MP4409-001A-55 (D-Mounting hole d55)

Note: The spring tab should be selected according to the motor end size.



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SIGNAL DEFINITIONS

LEAD COLOR	RED	BLACK	BLUE	YELLOW	BROWN	WHITE	SHIELDED CABLE
SIGNAL DEFINITION	5V	GND	485+	485-	Battory Positive	Batteny GND	Р

Select hole diameter, resolution, interface, and spring tab according to project requirements.

If you have any customization requirements, please contact: https://www.ustomization.com

Please refer to the next page for key electrical and mechanical parameters.



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SPECIFICATIONS

ENCODERS

Working Temperature:	-20 °C -+105 °C
Current Consumption:	< 100mA
Battery Voltage:	3.6V DC
Battery Fault Voltage:	2.5V
Battery Warning Voltage:	3.1V

Signal:	Differential output
Supply Voltage:	Single 5V Supply
Rise/Fall Time:	Around 100ns
Insulated Resistance:	50M Q

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ELECT	KIL AL	SPEU		
LLLUI	ILL CALL	UL LO		

Resolution Ranges:	131072 (17Bit) - 8388608 (23Bit)		
Resolution Capabilities:	16 Bits Multi-Turn Resolution Counter		
Absolute Positioning Accuracy:	<±50 Angular Seconds		
Repetition Positioning Accuracy:	<±3 angular seconds		
Battery Voltage Fault Warning:	Yes		
Interface	RS485		
Communication Frequency:	≤16K		
Baud Rate:	2.5MHz		

MECHANICAL SPECIFICATIONS	5
Enter Allowable Deviation Of Shaft:	Axial:±0.5mm Radial:±0.02mm Dip Angle:0.1° Axial Endplay:<0.1mm Radial Runout:<0.01mm
Operation Speeds:	Оf Up To 6000rpm
Shaft Diameter:	Axis Of A Cone Ø9, Taper 1:10
Moment Of Inertia:	0.68kg * mm2
Rotor Angular Acceleration:	During Power Supply ≤80000rad/S2 When Battery Powered ≤4000rad/S2
Mechanical Shock:	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 Is 98m/S2 XYZ 2 Hours Per Axial Direction, 6 Hours In Total
Working Temperature:	-20 °C -+105 °C
Relative Humidity:	≤90%6 (40°C/21d, Based On En 60068-2-78) Without Condensation.
Degree Of Protection:	IP40