INCREMENTAL TYPE

48T Series

Rigid Diecasted Bearing Stage

- High Resolution at 2500P/R
- 6000rpm. 6Channel 200KHz Response

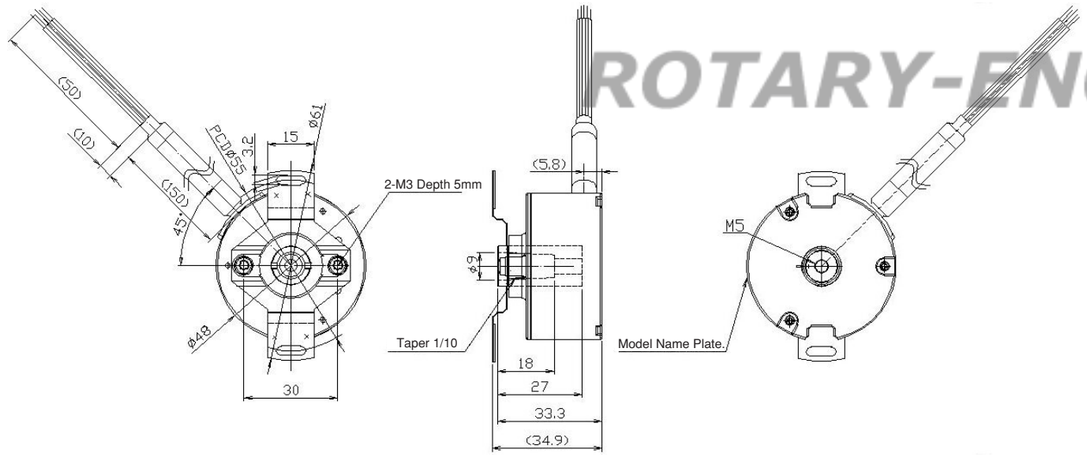
Model

48 T – 25 – 5MD 9 □ – 015 – 00

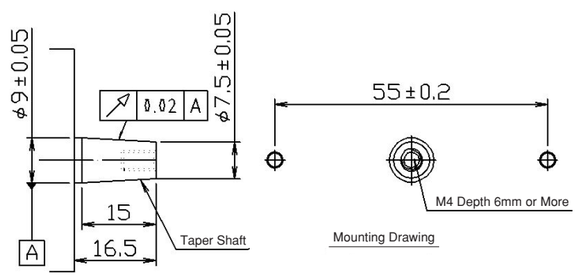
Series	Shaft Type	Resolution	Signals and Output Mode	Shaft Diameter	Number of Poles	Cable Length	Spec No.
48	T	25	5MD	9	□	015	00

- Shaft Type: T:Taper Shaft
- Resolution: 25:2500P/R
- Signals and Output Mode:
  - 5 : AB90° Phase Difference UVW120° Phase Difference
  - M : Zero Signal
  - D : Line Driver Output
- Shaft Diameter: 9:Tapered Shaft 7.9-9.0
- Number of Poles (Poles Pairs): 4:4Poles, 6:6Poles, 8:8Poles
- Cable Length: 015:150mm
- Spec No.: 00:Standard

External Dimension



Circuit of Output Signal



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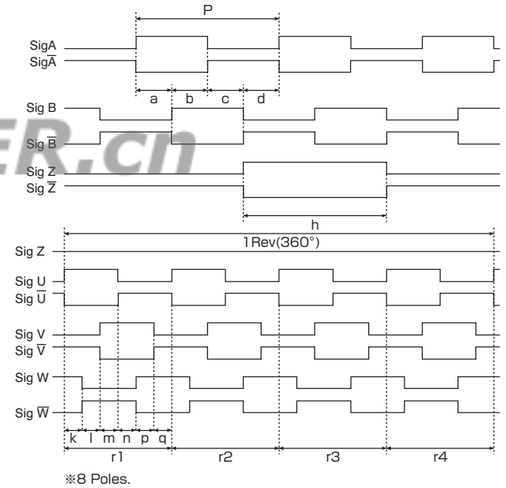
Electrical Spec.

Power Source	Supply Voltage		DC 5V±5%
	Allowable Ripple		P-P 2% or Less
	Current Consumption(no-load)		100mA(no-load)
Output Waveform	Signal		AB90° Phase Difference Zero Signql UVW120° Phase Difference Reverse Signal ($\overline{A}$ · $\overline{B}$ · $\overline{Z}$ · $\overline{U}$ · $\overline{V}$ · $\overline{W}$ Signal)
	Frequency Response		200kHz
	Rise & Fall Time		1 μs Max
	Wave Ratio(duty)		a,b,c,d=(P/4)±(P/6)
Output	Output Mode		Line Driver Output (Equal 26C31)
	Output Current	H	I OH=−20mA
		L	I OL= 20mA
	Output Voltage	H	2.5V or More (I OH=−20mA)
		L	0.5V or More (I OL=20mA)

Wave Form.



※8 Poles.

Electrical Connections

Color of Lead Wire	Description
Red	Vcc
Black	GND
Green	A
Green-Black	$\overline{A}$
Blue	B
Blue-Black	$\overline{B}$
Yellow	Z
Yellow-Black	$\overline{Z}$
Brown	U
Brown-Black	$\overline{U}$
White	V
White-Black	$\overline{V}$
Gray	W
Gray-Black	$\overline{W}$
Black Shield	Shield Drain

Mechanical Spec.

Starting toque		29.4×10⁻⁴N · m MAX(at+25℃)
Shaft Loading	Thrust axial	9.8N MAX
	Radial	19.6N MAX
Maximum RPM		4800r/min
Net Weight		150g or Less(W/O Cable)

Environmental Spec.

Temperature	Operating Temperature	−20℃~85℃
	Storage Temperature	−20℃~85℃
Humidity		RH 85% Max No Condensation
Vibration		10~55Hz t=1.5mm
Shock		490m/s² 11ms
Degree of Protection		IP40

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