

- Outer diameter : 50 mm
- Shaft diameter : 8 mm
- Resolution : 5 ~ 2500 P/R
- Protection : IP50 / IP65



## SPECIFICATION

### Electrical Parameter

- ◆ Detection System : Incremental
- ◆ Output Wave : Square Wave
- ◆ Encoder Resolution : 5,10,12,20,30,40,50,60,100,150,180,200,250,300,360,400,500,600,720,800,900,1000,1024,1200,1500,1800,2000,2048,2500
- ◆ Output Signal : AB phase , ABZ low phase , AB+Z high phase
- ◆ Output Type : NPN Voltage, NPN Open collector, Push pull, Line driver
- ◆ Rated Voltage : DC8~26V , DC5V fixed
- ◆ Current Consumption : ≤60mA
- ◆ Output Capacity : Source current:20mA, Residual voltage:0.5V or less
- ◆ Max. Response Frequency : 0K Hz~100K Hz Max
- ◆ Output Phase Difference : A,B phase different 90°±45° (T/4±T/8), Z phase T±T/2
- ◆ Signal Characteristic : 2us or less
- ◆ Polarity : Against reverse protection(not with DC5V)

### Mechanical Parameter

- ◆ Shaft Diameter : 8mm
- ◆ Max. Shaft Load : (10 ~ 400PPR)Axial: 3 kg, Radial: 5 kg (over 400 PPR)Axial: 1 Kg, Radial:2 Kg
- ◆ Starting Torque : 40 gf-cm or less
- ◆ Max. Speed of Main Shaft : 6000 rpm
- ◆ Vibration : 10g(10±1,500Hz)
- ◆ Shock : 20g per 11ms
- ◆ Cable : ø4.7,1m long
- ◆ Weight : ≤200g

### Environment Parameter

- ◆ Operating Temperature : -10°C~60°C,95% RH (Non-condensing, Non-freezing)
- ◆ Storage Temperature : -20°C~80°C (Non-condensing, Non-freezing)
- ◆ Protection Degree : IP50/IP65

## ORDER INFORMATION

HTR-50 - Code1 - Code2 - Code3 - Code4

Code1	Encoder Resolution	Code2	Output Signal	Code3	Output Type	Code4	Rated Voltage
5,10,12,20,30,40,50,60,100,		2	AB phase	B	NPN Voltage	B	8~26Vdc
150,180,200,250,300,360,		3	ABZ low phase	C	NPN Open collector	5	5Vdc
400,500,600,720,800,900,		4	AB+Z high phase	P	Push pull		
1000,1024,1200,1500,1800,				L	Line driver 5Vdc		
2000,2048, 2500				HL	Line driver 5~26Vdc		

## DIMENSION

