

## PIE50 series



E: Voltage output  
 C: Open collector output  
 F: Complementary output(Push pull)  
 L: Line driver Output  
 T: Line driver (high TTL)

### Explanation of model



E : Axial cable  
 G:Radial cable

### For example

PIE50-08-1024-G05C is shaft diameter  $\Phi 8$ , 1024P/R, side entry cable, supply voltage 5V, open collector output .

### Technical data

Resolution	100-5000P/R	Rotating inertia	$3.5 \times 10^{-6} \text{kg} \cdot \text{m}^2$
Supply voltage	DC5V or DC 10V~30V	Max rotating speed	6000r/min
$V_H$ Output voltage	$\geq V_{CC} \times 70\%$	Vibration resistance	$50 \text{m/s}^2$ (10~200Hz) (XYZ each direction 2hours)
$V_L$ Output voltage	$\leq 0.5 \text{V}$	Shock resistance	$980 \text{m/s}^2$ (XYZ each direction 2times) last 6ms
Current consumption	$\leq 150 \text{mA}$	Protection	IP65
Output phase	A. B. Z	Operating temperature	$-10^\circ\text{C} \sim +70^\circ\text{C}$
Frequency response	100kHz Max	Storage temperature	$-20^\circ\text{C} \sim +80^\circ\text{C}$
Rise/fall time	$\leq 1\mu\text{s}$ or line driver $\leq 0.1\mu\text{s}$	Operating humidity	30~85%RH
Starting torque	$3 \times 10^{-3} \text{N} \cdot \text{m}$ (+25°C)	Weight (no cable)	0.4kg
Shaft loading	Radial 40N Axial 20N	Accessories	

### Connection table

cable color		Red	Black	White	Green	Yellow	Blue	Orange	Brown	Shield
Output form	C/E/F	VCC	0V	A	B	Z	—	—	—	FG
	P/L/D/H/M	VCC	0V	A	B	Z	$\bar{A}$	$\bar{B}$	$\bar{Z}$	FG
7PIN CX16K7P plug		1	7	3	4	5	—	—	—	6
9PIN CX16K9P plug		4	3	1	2	5	8	9	6	7

### Dimension(mm)

