

## PIE<sub>3</sub> 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

PIE<sub>3</sub>-8-1024-C05F is shaft diameter Φ8, 1024P/R, side entry plug, supply voltage 5V, complementary output .

### Technical data

Resolution	100-5000P/R	Rotating inertia	3.5×10 <sup>-6</sup> kg·m <sup>2</sup>
Supply voltage	DC5V or DC 10V~30V	Max rotating speed	6000r/min
V <sub>H</sub> Output voltage	≥V <sub>CC</sub> ×70%	Vibration resistance	50m/s <sup>2</sup> (10~200Hz) (XYZ each direction 2hours)
V <sub>L</sub> Output voltage	≤0.5V	Shock resistance	980m/s <sup>2</sup> (XYZ each direction 2times) last 6ms
Current consumption	≤150mA	Protection	IP65
Output phase	A. B. Z	Operating temperature	-10°C ~ +70°C
Frequency response	100kHz Max	Storage temperature	-20°C ~ +80°C
Rise/fall time	≤1μS or line driver ≤0.1μS	Operating humidity	30~85%RH
Starting torque	3×10 <sup>-3</sup> N·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)

