

PHB38 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

PHB38-8-1024-G05E is half-hollow shaft $\Phi 8$, 1024P/R, side entry cable, supply voltage 5V, voltage 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	50m/s^2 (10~200Hz) (XYZ each direction 2hours)
V_L Output voltage	$\leq 0.5 \text{V}$	Shock resistance	980m/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 $^\circ\text{C}$)	Weight (no cable)	0.5kg
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
10PIN Y2M-10TK plug		4	6	1	2	3	—	—	—	10
10PIN Y2M-10TK plug		4	6	1	2	3	7	8	9	10

Dimension(mm)

