

Encoder for Textile Machinery

Type: Compound encoder

Bit count: 8-bit absolute code

Code system: Gray code

Incremental code: 500P/r A,B,Z signals

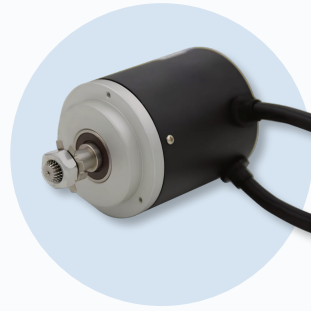


RPH66S10 Series

Applications &Features

This product is a compound encoder. It outputs two signals of A and B channels with a 90° phase difference, and its output absolute code **is 8-bit binary Gray code**.

It is widely used in systems such as automatic measurement and automatic control, and is especially suitable for textile machinery. The optoelectronic devices have high reliability, long service life, strong anti-interference ability, and a wide operating temperature range.



Specification Parameters

Model	Absolute code					Incremental code
	Number of bits	Number of divisions	Angular Resolution	Carry Direction	Accuracy	500P/r A,B,Z signals
RPH66S10-500/180°	8	180°	2°	Viewed from the shaft end counterclockwise (CCW)	±40	
	the absolute code is the zero-position center of the incremental code					

Electrical Parameters

Classification /Item	Power Supply Voltage	Output Signal			Current Consumption	Output Waveform		Rise/Fall	Response Frequency	Insulation
		High Level (V)	Low Level (V)	Allowable Input Current						
incremental code	5	≥3.5	≤1	20mA	<260mA	Square Wave	Z Positive Logic	<1us	0-25KHz	>100MΩ
absolute code	24	≥10	≤1	20mA						

Mechanical Parameters

Allowable Rotational Speed	0 - 1000 r/min
Starting Torque (25°C)	$2 \times 10^{-3} \text{ N} \cdot \text{m}$
Shaft Load	Radial: 40 N; Axial: 20 N

Environmental Parameters

Operating Temperature	Storage Temperature	Vibration Resistance	Shock Resistance	Relative Humidity
-25 ~ 85℃	-30 ~ +85℃	30m/s ² (10~200Hz, X, Y, Z directions 1h each)	300m/s ² (X, Y, Z directions, 3 times each, 11ms per time)	85%

Wiring Table

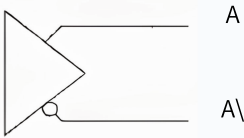
Absolute Code

Wire Color	Red	Black	Green	White	Yellow	Brown	Gray	Orange	Pink	Purple	Shield
Signal	Vcc	V0	2^0	2^1	2^2	2^3	2^4	2^5	2^6	2^7	N.C

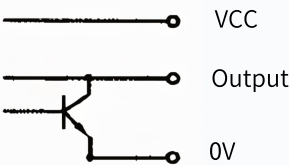
Incremental Code

Wire Color	Red	Black	Green	White	Yellow	Brown	Gray	Orange	Shield
Signal	Vcc	0V	A	B	Z	A/	B/	Z/	N.C

Output Circuit



incremental code



absolute code

Product Outline Drawing

