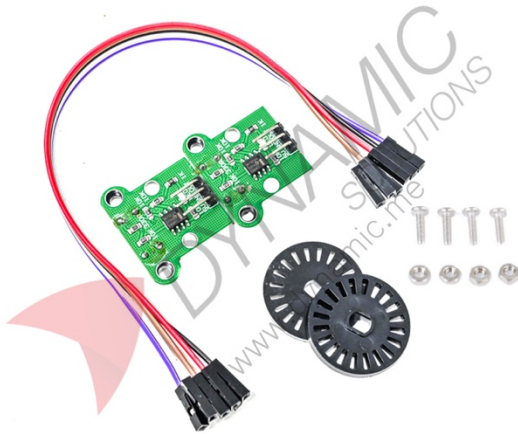


Double Speed Measuring Encoder Sensor Module



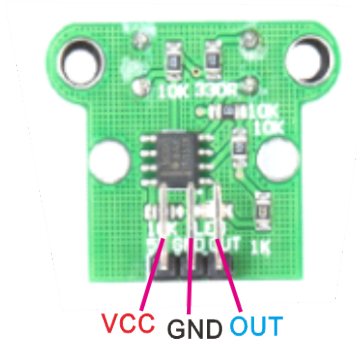
Features:

The Double Speed Measuring Encoder Sensor Module offers precise motor speed and distance tracking using photoelectric sensing and dual-channel output. With a high measurement frequency of 100kHz and a resolution of 20 lines per disk, the included HC-020K sensors deliver real-time, accurate pulse data suitable for motor control applications. The system can detect rotations and calculate both revolutions per minute (RPM) and distance traveled using pulse-based calculations. Perfect for educational robotics, tank wheel tracking, and real-time speed feedback.

Specifications	
Module Operating Voltage	DC 4.5–5.5V
Transmitter Voltage Drop (Vf)	1.6V
Transmitter Current (If)	<20mA
Signal Output	A, B two-way; TTL level
Resolution Accuracy	0.01mm
Measuring Frequency	100kHz
Code Disk Diameter	24mm
Code Disk Inner Diameter (D-hole)	4mm
Code Disk Resolution	20 lines
Speed Sensor Configuration	Measures 1-way motor speed
Included Sensors	2 × HC-020K Speed Sensor
Included Code Disks	2 × 20-Grid Black Code Plate
Dupont Cables	6 × 20cm Female-to-Female
Screws	4 × M3×10 Round Head Screws
Nuts	4 × M3 Nuts

HC-020K Pinouts:

Pin Name	Type	Description
VCC	Power	Power supply input (4.5–5.5V DC)
GND	Ground	Ground connection
OUT	Signal	Frequency output signal (pulse per line)



Product Pictures:

