[40 CPR Quadrature Encoder](#)

There are so many projects that require motor position control that Phidgets decided to make an inexpensive, reliable option. The ENC4109 is exactly that: an affordable optical quadrature encoder that is compatible with the mounting pattern of the majority of the DC and stepper motors sold here. See the Compatible Products tab for a complete list of motors to choose from.

How to Install

See the User Guide tab for a step-by step installation guide for this encoder.

Connection

This encoder connects to a quadrature encoder interface. The encoder cable provided with this encoder is compatible with all Phidgets encoder interfaces. See the Compatible Products tab for details.

Packaged With

- 2 Mounting Screws

- Encoder Wheel, PCB, Base and Cap

- [3035_0](#) — Encoder Cable

Product Specifications

Encoder Properties

Controlled By	Encoder Interface
Output Circuit Type	Push-Pull
Encoder Speed Max	6000 RPM
Encoder Resolution	40 CPR

Electrical Properties

Supply Voltage Min	2.7 V DC
Supply Voltage Max	7 V DC
Output Frequency Max	12.5 kHz

Physical Properties

Operating Temperature Min	-40 °C
Operating Temperature Max	85 °C
IP Rating	IP65