Optical Rotary Encoder HKT22



This compact, economical optical quadrature encoder can be attached to the 4mm rear shaft of a motor. It has 300 counts (full quadrature cycles) per rotation and can be installed by fitting it over the shaft, mounting it to the back of the motor, and tightening the set-screw. For complete assembly instructions, take a look at the user guide. This encoder does not support the use of an index channel.



The mounting holes on the HKT22 encoder line up with the holes on the back of any rear-shaft stepper motor sold at Phidgets, Inc. For a list of compatible motors and encoder interfaces, see the Compatible Products tab.

Comes Packaged With



- ∘ 0.9 mm Hex Key for set-screws
- $\,{}^{\circ}$ Plastic encoder cap and mount
- ∘ Encoder disk
- ∘ Encoder PCB
- ∘ Two screws
- ∘ 3035 Cable for HKT22 Encoder

Product Specifications

Encoder Properties

Controlled By Encoder Interface

Output Circuit Type Push-Pull (Single-Ended)

Encoder Speed Max 6000 RPM Encoder Resolution 300 CPR

Electrical Properties

Supply Voltage Min 5 V DC
Supply Voltage Max 5 V DC
Output Frequency Max 30 kHz

Physical Properties

Operating Humidity Max (Non-condensing) 85 %RH

Operating Temperature Min -10 $?^{\circ}C$ Operating Temperature Max 85 $?^{\circ}C$ IP Rating IP40 Weight 4 g