

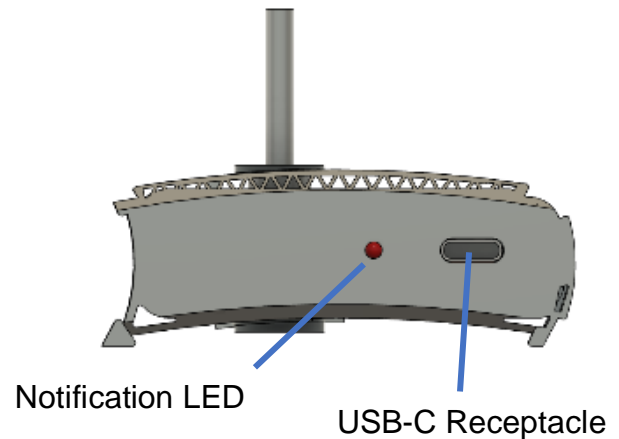
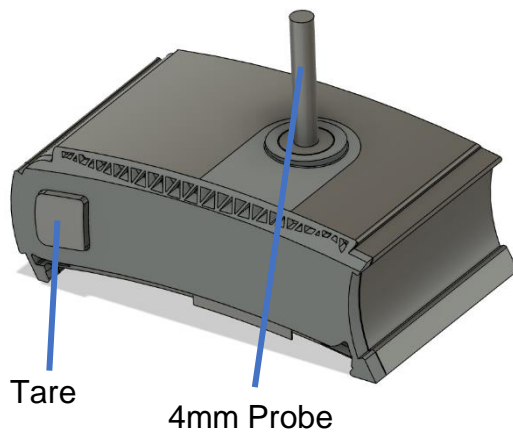
Datasheet

Qosain Scientific PhysCompass

Introduction:

PhysCompass is a contact-based, very low-friction, angular position and speed sensor that promises to be accurate, reliable, and extremely easy to use. Based on Vernier interpolation, PhysCompass can measure the angle of any rotating object with a resolution as fine as 0.6° and a range that has no limits!

- Weight:
- Probe Diameter: 4mm
- Probe Material: Steel
- Probe Length: 3cm
- Contact Type: 2x ball bearings



Features:

- Adaptable for rods, pendulums, rotors, etc.
- PhysInstrument Class: Digital
- Connects with PhysLogger
- Direction sensitive
- Hardware tare
- Automatic calibration
- Notification LED:
 - Slow Blinking (0.5 blinks per second): Not configured
 - Medium (4 blinks per second): Calibrating
 - Fast (20 blinks per second): In Use

Specifications:

- Range: Unlimited
- Accuracy: $\leq 0.5^\circ$
- Resolution: $\leq 0.5^\circ$
- Mechanical

Measurement Technique

- Method: Analog Vernier Interpolation
- Main scale resolution: 63/rev
- Vernier scale resolution: 8/rev
- Analog resolution: 96

Typical Applications

- Investigate nonlinear and chaotic motion with a magnetically controlled pendulum
- Discover the principles of rotational mechanics
- Explore the profound physics of pendulums and oscillators
- Track the rotation of a motor, shaft or any pivoted component
- Biomechanical and clinical measurements
- Robots and vehicles



Resources

- Instrument URL: www.physlogger.com/PhysCompass.html
- Discussion: www.community.physlogger.com/c/physinstruments/physcompass/24

