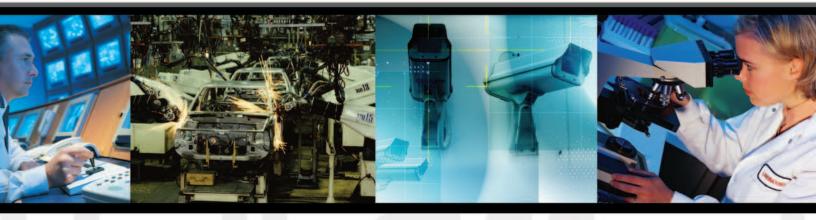
# CH Products



# Finger Operated HFX Series I

Hall Effect Joysticks



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## Finger Operated HFX Series I Joysticks

The HFX Series I joystick is a contactless, multi-axis controller providing long life fingertip positioning control. A compact, low-profile joystick utilizing non-contact Hall effect technology, the HFX Series I joystick is designed for low operating force, clean environment applications requiring enduring accuracy and precision. Available with several ergonomic handles and in single, dual or triple axis configurations, typical uses include CCTV equipment, robotics, factory automation, electric wheelchairs and medical devices.

#### Available Models

Model 1100: Two axis

Model 1200: Two axis with buttons

Model 1300: Three axis

Model 1400: Three axis with buttons

#### Physical Specifications

Joystick travel
 36° (18° from center)

Centering: Single spring, omnidirectional
 Housing: High impact glass-filled nylon

Breakout force: .109 Nm
Operational force: .151 Nm
Maximum force: .169 Nm

• Operating temperature: -40°C to +85°C

• Life cycles: 3,000,000

#### **Electrical Specifications**

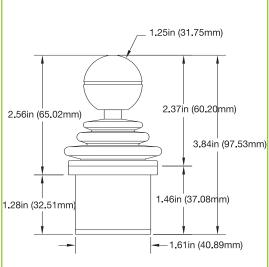
Supply voltage: 5VCenter voltage: 2.5V

Supply current: 6mA max/axisOutput current: 2mA max/axis

• Output tolerance: ± 2%

### www.tooye.net Model IIOO

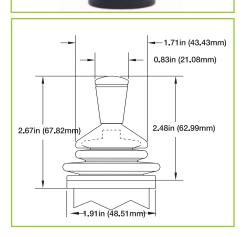




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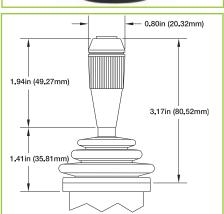
#### Model IIOO





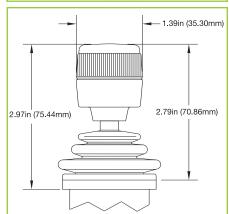
#### **Model 1200**





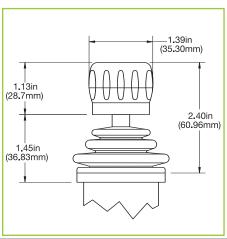
### www.tooye.net Model I300





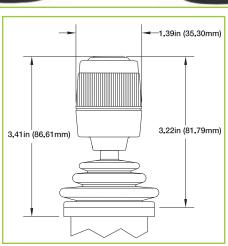
#### Model 1300





#### Model I400





#### **Configuration Options**

#### Sensor Output Options

- 0V to 5.0V
- 0.25V to 4.75V

#### Optional Features

#### **USB**

Universal Serial Bus provides USB 1.1 interface. No driver is needed.

#### **Analog Deadband**

Assures return to center voltage.

#### **Center Detect/Fault Detect**

Produces an electrical HI signal when stick is moved off center and produces an electrical LO signal if the sensor output voltage deviates from range (<0.5V or >4.5V).

#### **Dual Decode**

Provides center detect function and monitors dual sensors. If the sum and the difference of the sensor outputs vary by more than 9%, the circuit becomes electrically LO. Requires dual sensors.

#### Joyball

Cursor emulation available with USB or Sun.

#### **Voltage Regulator**

Used when input or output voltage is greater than 5V or when bipolar output is required. Contact factory for available configurations.

#### **Centering Plate**

Increases mechanical return to center and repeatability.

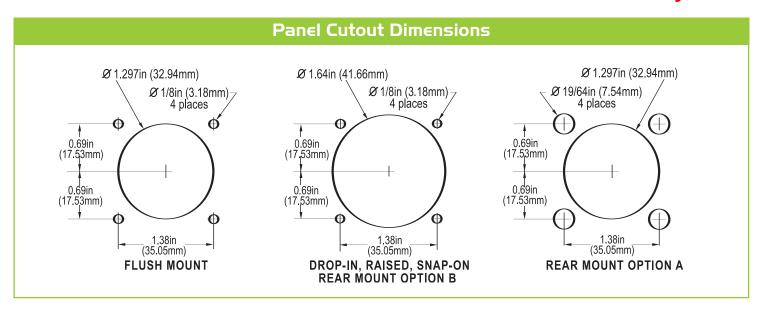
#### **Friction Clutch**

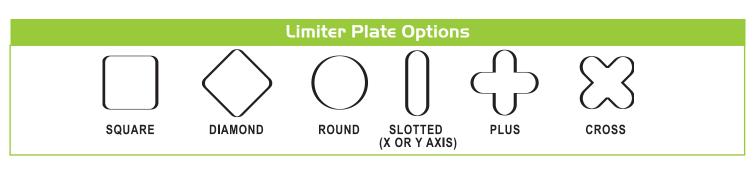
The joystick does not mechanically return to center, maintains present position.

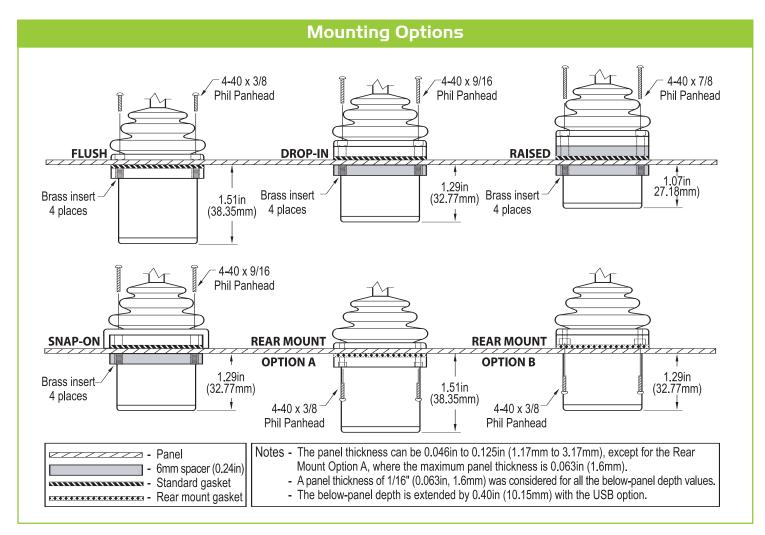
#### **Desktop Housing**

Visit www.chproducts.com for available configurations.

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### Finger Operated HFX Series I Hall Effect Joysticks

#### Typical Applications

**CCTV Camera Control** Remote Control Robotic Systems **Factory Automation** Simple Machine Control **Automated Conveyor Systems** Medical Devices

**Optical Devices** Targeting Systems **Electric Wheelchairs** Military Robotics Unmanned Vehicle Control Electron Microscopes









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