



Force Transducers

Overview

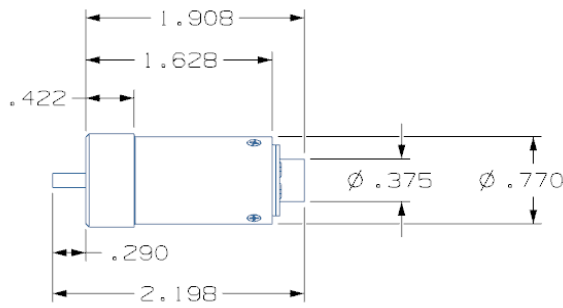
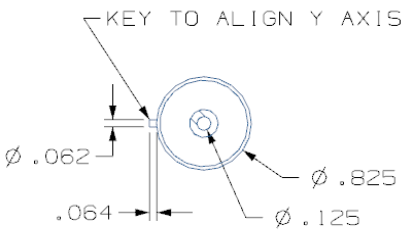
Bugeye's Force Transducers are robust, high precision devices. Typical applications include military simulation equipment, remotely piloted vehicles, targeting systems, industrial equipment, any system requiring a cursor input device. All of Bugeye's Force Transducers carry a **5 year warranty**.

Mechanical

External case is black anodized aluminum and the shaft is stainless steel. A variety of knobs can be fitted onto the shaft for any application. A variety of force curves with varying travel are available as shown on graph below. The Bugeye Transducers are available with or without push-button capability and the pushbutton force is selectable.

Electrical

The transducers produce outputs based on the force applied in both the lateral and longitudinal axis and measured by semiconductor strain gauges in a bridge configuration. The centering repeatability error is less than 0.5%.



Electrical

Vcc	5Vdc (28V max)
Output	40% - 60% Vcc
Center Voltage	50% Vcc +/- 1.5% Vdc
Resolution	Infinite
Resistance	2k Ohm +/- 100Ohm

Electrical Connections, Standard Version

RED	Vcc (5Vdc)
BLACK	Gnd
GREEN	Y AXIS +UP
GREY	X AXIS +RIGHT

Additional Electrical Connections, Push Button

WHITE	Signal
BLACK	Gnd

