

BG Systems Fmt Transducer with Pushbutton

Fmt-PB™

Overview

The Fmt-PB is a robust high precision force transducer with pushbutton. Typical applications for the Fmt-PB range from, industrial equipment, remotely piloted vehicles, payload control, and military equipment such as computer based training systems. The rugged design means that they will provide reliable service for extended periods, backed by a two year warranty.

The Fmt-PB produces an output based on the force applied in either the lateral or longitudinal axis. With the pushbutton feature it is ideal for cursor control or as a designator.

Key Features

Mechanical

External casing is stainless steel. Output shaft is a 2.2mm hardened Beryllium Copper onto which a variety of knobs can be mounted.

Electrical

The force applied to the transducer is measured by silicon strain gauges mounted as a bridge. It provides output voltage through a signal conditioning amplifier. The centering repeatability error is less than 0.5%.

Mounting

The Fmt-PB fits into a 0.75" (19mm) mounting hole and should be held in place with set screws.

Knobs

Many different styles of knob are available.

Warranty

The Fmt-PB joysticks carry a 2 year warranty from the date of installation in customer equipment.



Technical Specifications

Electrical

Vcc	5.00 vDC
Output Voltage	35% to 65% Vcc
Center Voltage	50% Vcc
Output Current	10 mA max
Supply Current	16 mA (at 5 vDC Vcc)

Physical

Weight	0.1 lbs
Length	1.8" (depends on knob)
Below Panel	1.3"
Top Diameter	1.00"
Barrel Diameter	0.75"
Activation Force	+/- 2.0 lb (full signal)

Environmental

Operating Temperature	-70°C to 80°C
Storage Temperature	-70°C to 80°C
Operating Humidity	Less than 95%

Environmental Tests

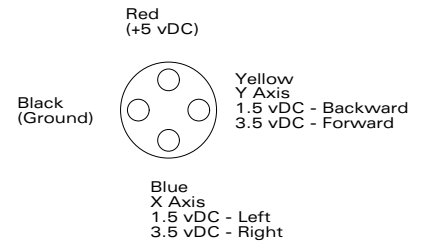
Test	MIL-STD	Method
Temperature	810G	501.5
Vibration	810G	514.6
Humidity	810G	507.5
Immersion	810G	512.5

Immersion to IP68

Installation

Panel cutout: 0.75" Ø

Wiring



Ordering Information

Part Number	Description
Fmt-PB	No Knob
Fmt-PB-H	Hat
Fmt-PB-I	Inverted Cone

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