BG Systems JFx Joystick

JFx

Overview

The JFx series joysticks are robust high precision joysticks. Typical applications for the JFx range from computer labs, to interactive museum exhibits, to industrial equipment, to remotely piloted vehicles, 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.

Key Featur es

Mechanical

The motion mechanism is based on two gimbals machined from solid aluminum alloy blocks. The gimbals rotate about hardened stainless steel shafts and shielded ball bearings. Internal mechanical parts are anodized aluminum and stainless steel. Three spring stiffnesses are available in the lateral and longitudinal axes, and two in the rotational axis. Light springs are standard.

Electrical

In every axis the position of the stick is measured by a magnetic Hall Effect sensorwhich provides output voltage through a signal conditioning amplifier. The sensing system is contactless, which improves performance and reliability over extended periods. The centering repeatability error is less than 0.5%. Switches provide a closed contact to a common input.

Mounting & Connectors

The joystick is mounted with four 1/4" bolts in a 3.8" cutout. Under panel depth requirement is 3.5", including the connector. The connector is either a DB-15 or a high density DB-26, which carries power to the stick and the output signals.

Reliability

The mechanical and electrical assembly has been subjected to 5,000,000 cycle test at 20 Hz with no impact on performance.

JF

The JF3 model has roll, pitch and twist displacements and the JF2 just has roll and pitch. Additional analog channels are available when either the proportional rocker or force joystick options are chosen. The joysticks come standard with a single position trigger. Various configurations of switches can be mounted in the head of the grip and on the side. Custom configurations can be accomodated.



Warrantv

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

Grip

The standard grip is cast aluminum and is ambidextrous in most configurations. The standard configuration has a single position trigger with a two position trigger available as an option. Various thumb actuated switches can be mounted at the top of the grip. Examples include: momentary pushbuttons, latching pushbuttons, two and 4 position switches, proportional rockers, and miniature force joysticks.

The grip can also be ordered with buttons mounted on the side in two locations. The side switch is a thumb operated switch and the "pinkie

switch" is operated by the little finger These are mounted on the left side of the joystick for right hand operation. If left hand operation is required please contact BG Systems for availability The joystick above shows a JF3-1-MP-CA-MP-SMP-PMP configuration.



JF x O ptions			Ordering Information			
	Description	D 141	Part Number	Descrip	otion	
Part N umber		Positio n	JF3-1-00-00-00	3 axis		
JFx-2-xx-xx-xx JFx-x-xx-MP-xx	2 position trigger Momentary pushbutton	Any	JF2-1-00-00-00	2 axis		
JFx-x-xx-CH-xx JFx-x-xx-CA-xx	4 position Òcoolie hatÓ witch 4 position ÒcastleÓ witch	Any Any	Switch options replace	an	y -00-	
JFx-x-xx-2P-xx	2 position switch	Any	株式会社リアルヒ	ニズ		_
JFx-x-00-PRh-00	Horizontal proportional thumb rocker	r Center	〒101-0042			The Realtime
JFx-x-xx-PRv-xx	Vertical proportional thumb rocker	Center	東京都千代田区神田東松下町35番地 (RealVIZ) Visualization			
JFx-x-xx-PRxs-xx	Proportional rocker with spring centering		第2アキヤマビル			Company
JFx-x-xx-FJ1-xx	2-axis miniature force joystick	Any	Tel. 03-5207-686	2(代表)	Fax, 03-520	07–6865
-Sxx	Side switch option		E-mail:informat			
-Pxx	Pinkie switch option		Web:http://www.u	-	51	