

# J50-4082 Low Profile Heavy Duty Joystick



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**J50-4082 Low Profile Heavy Duty Joystick**  
*Heavy Industrial Marine Joystick Series*

## Features

- One, Two, or Three Axis Joystick (X,Y, Z)
- 4.5" handle height
- 40° -50° deflection angle ( $\pm 20^{\circ}$ - $25^{\circ}$ )
- Many knob options
- Spring return to center standard
- Circular deflection pattern standard
- 10K ohm precision potentiometer standard
- Protective rubber boot
- IP65 rating above panel
- Panel mounting bracket

## Options

- Single Axis (X); Three Axis (X, Y, Z)
- Square limiter plate
- Cross (+) limiter plate
- Friction clutch (holds position, replaces spring return)
- Non-standard resistance
- Center detent
- Center-tapped pots
- Dual gang pots
- Inductive (non contacting) pots
- Sealed pots
- Dual direction switches
- Single direction switch; Center detect switch
- Push button handle; Tapered handle
- Without boot; without mounting plate

## Electrical Specifications

Resistance: 10K Ohms Conductive Plastic  
Resistance Tolerance:  $\pm 15\%$   
Independent Linearity:  $\pm 3.0\%$   
Power Rating: (X, Y) 0.13 watt  
Power Rating: (Z) 0.3 watt  
Lever Electrical Angle: (X,Y) - 40°  
Lever Electrical Angle: (Z) - 60°  
Resolution: Essentially infinite  
Output Smoothness: Below 0.2% against input voltage  
Contact Resistance Variation: Below 5%  
Insulation Resistance: 1000 Meg@500VDC  
Dielectric Strength: 1 minute @ 500 VAC  
Max. Wiper Output: 5mA, 1ma rec.

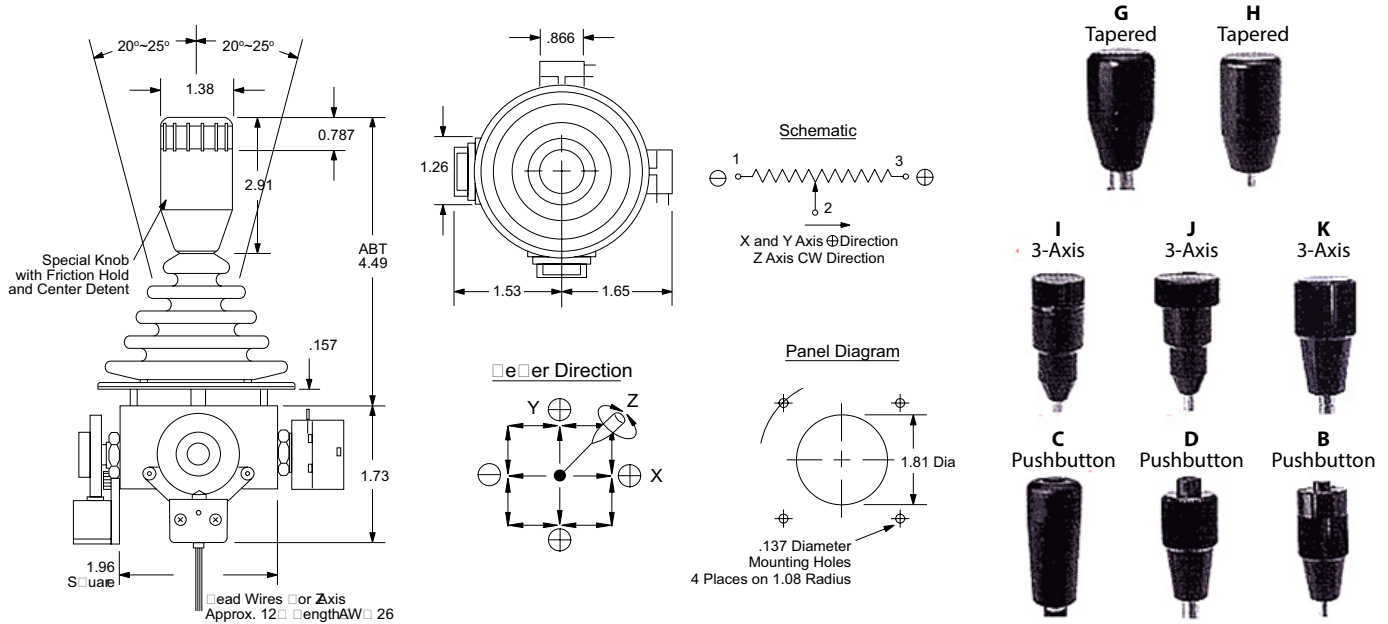
## Mechanical Specifications

Lever Deflection (X,Y):  $\pm 20^{\circ}$  to  $\pm 25^{\circ}$   
Operating Angle (Z):  $\pm 45^{\circ}$  to  $\pm 50^{\circ}$   
Operating Force (X, Y): 7.05 to 24.69 oz-F  
Operating Force (Z): 2.78 to 6.94 oz-F  
Housing: Aluminum  
Knob Material: Hard plastic  
Weight: Approx 11 oz  
Service Life: 5,000,000 operations

## Environmental Specifications

Operating Temperature: -20°C to +65°C  
Rating: IP 65 Above Panel

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## Ordering Information

Example Part Number: **J50-4082-2-R-CD**

<b>J50-4082</b>	<b>2</b>	<b>R</b>	<b>CD</b>
<b>Model</b>	<b>Axis</b>	<b>Limiter Plate</b>	<b>Switch</b>
<b>J50-4082</b>	<b>3 = 3 axis (X,Y,Z)</b> <b>2 = 2 axis (X,Y)</b> (standard) <b>1 = Single axis (X)</b>	<b>None = Circular deflection - no limiter plate (standard)</b> <b>Square</b> <b>Cross (+)</b>	<b>FR = Friction clutch (holds position)</b> <b>CD = Center Detent</b> <b>NS = Non-standard resistance</b> <b>CT = Center Tapped pots</b> <b>DG = Dual Gang pots</b> <b>IP = Inductive (non contacting) pots</b> <b>SP = Sealed potentiometers</b> <b>WB = Without boot</b> <b>WM = Without Mounting Plate</b>
	<b>Knob</b>		
	<b>B = Push button handle style B</b> <b>C = Push button handle style C</b> <b>D = Push button handle style D</b> <b>G = Tapered handle style G</b> <b>H = Tapered handle style H</b> <b>I = 3-axis handle style I</b> <b>J = 3-axis handle style J</b> <b>K = 3-axis handle style K</b>		

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