J50-4082 Low Profile Heavy Duty Joystick

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

For more information about this product, visit our website at: www.potentiometers.com

**Features**
- One, Two, or Three Axis Joystick (X,Y, Z)
- 4.5" handle height
- 40° -50° deflection angle (±20°-25°)
- 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: ±15%
- Independent Linearity: ±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): ±20° to ±25°
- Operating Angle (Z): ±45° to ±50°
- 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
J50-4082 Low Profile Heavy Duty Joystick

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Axis</th>
<th>Limiter Plate</th>
<th>Knob</th>
<th>Switch</th>
</tr>
</thead>
</table>
| J50-4082| 2     | None = Circular deflection - no limiter plate (standard) | B = Push button handle style B  
C = Push button handle style C  
D = Push button handle style D  
G = Tapered handle style G  
H = Tapered handle style H  
I = 3-axis handle style I  
J = 3-axis handle style J  
K = 3-axis handle style K | None = No switch (standard)  
Single = Single direction switch  
Dual = Dual direction switches  
Center = Center detect switch |

For more information about this product, visit our website at: www.potentiometers.com