J90 Series Full Size Heavy Duty Joystick

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

J90 Series Full Size Heavy Duty Joystick

Heavy Duty Joystick Series

Features
- One, Two, or Three Axis Joystick (X, Y, Z)
- 6.49” handle height
- 45° deflection angle (±22.5°)
- Hand-grip style knob standard
- Spring return to center
- Circular deflection pattern standard
- 10K ohm precision potentiometer
- Protective rubber boot
- IP65 rating above panel
- Panel mounting bracket

Options
- Single Axis (X) - Knob Q
- Three Axis (X, Y, Z) - Knob T
- Square or Cross (+) limiter plate
- Friction clutch (holds position, replaces spring return)
- Non-standard resistance
- Center detent pots
- Center-tapped pots
- Dual gang pots
- Inductive (non contacting) pots
- Sealed pots
- Single direction switches
- Dual direction switches; Center detect switch
- Push button handle; Tapered handle
- Cannister style base enclosure
- Without Mounting Plate

Electrical Specifications
- Resistance: 10K Ohms Conductive Plastic
- Resistance Tolerance: ±15%
- Independent Linearity: ±3.0%
- Power Rating: (X, Y) 0.2 watt
- Lever Electrical Angle: (X, Y) - 44°
- 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): ±22° to ±26°
- Operating Force (X, Y): 7.2 to 43.2 oz-F
- Housing: Aluminum
- Knob Material: Hard plastic
- Weight: Approx 23 oz
- Service Life: 5,000,000 operations

Environmental Specifications
- Operating Temperature: -20°C to +60°C
- Rating: IP 65 Above Panel
# J90 Series Full Size Heavy Duty Joystick

![Diagram of Joystick](image)

**Ordering Information**

Example Part Number: **J90-2-Q-CD**

<table>
<thead>
<tr>
<th>J90</th>
<th>2</th>
<th>R</th>
<th>(None)</th>
<th>(None)</th>
<th>CD</th>
</tr>
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<tbody>
<tr>
<td>Model</td>
<td>Axis</td>
<td>Limiter Plate</td>
<td></td>
<td></td>
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<tr>
<td><strong>J90</strong></td>
<td></td>
<td>None = Circular deflection - no limiter plate (standard)</td>
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<tr>
<td>1</td>
<td>= Single axis (X)</td>
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<tr>
<td>2</td>
<td>= 2 axis (X,Y) (standard)</td>
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<tr>
<td>3</td>
<td>= 3 axis (X,Y,Z)</td>
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<tr>
<td>Knob</td>
<td></td>
<td>Q = Standard handle</td>
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<td></td>
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<td>P = Push button handle</td>
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<td>S = Rocker Switch handle</td>
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<td></td>
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<td>T = Rotary handle</td>
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<tr>
<td>Switch</td>
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<td>None = No switch</td>
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<td>Single = Single direction switch</td>
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<td>Dual = Dual direction switches</td>
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<tr>
<td></td>
<td></td>
<td>Center = Center detect switch</td>
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</tbody>
</table>

FR = Friction clutch (holds position, replaces spring return)
CD = Center Detent
NS = Non-standard resistance
CT = Center Tapped pots
DG = Dual Gang pots
IP = Inductive (non contacting) pots
SP = Sealed potentiometers
CB = Cannister style base enclosure
WM = Without Mounting Plate

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