

J3L Series Wide Angle Single Axis Joystick



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



J3L Wide Angle Resistive Single Axis Joystick
Fine Precision Joystick Series

Features

- Single Axis Joystick
- 1.71" handle height
- 40° deflection angle ($\pm 20^\circ$)
- Spring return to center
- Cylindrical knob
- 10K ohm Conductive Plastic element
- Protective rubber boot
- IP65 rating above panel

Options

- Friction clutch (holds position, replaces spring return)
- Non-standard resistance value
- Dual ganged pots
- Center tapped pots
- Inductive (non-contacting) pots
- Sealed potentiometers
- Dual direction switches
- Single direction switch
- Center detect switch
- Push button handle
- Ball handle
- Thumb tab handle
- Without boot
- Mounting plate

Electrical Specifications

Resistance: 10K Conductive Plastic
Resistance Tolerance: $\pm 20\%$
Independent Linearity: $\pm 5\%$
Power Rating: 0.1 Watts
Electrical Angle: 40° Approx
Resolution: Essentially Infinite
Output Smoothness: $< 0.2\%$ of input voltage
Contact Resistance Variation: Below 5% C.R.V.
Insulation Resistance: 1000 Megohms @500VDC
Dielectric Strength: 1 Minute at 500 VAC
Wiper Output: 1 mA recommended, 5 mA Max.

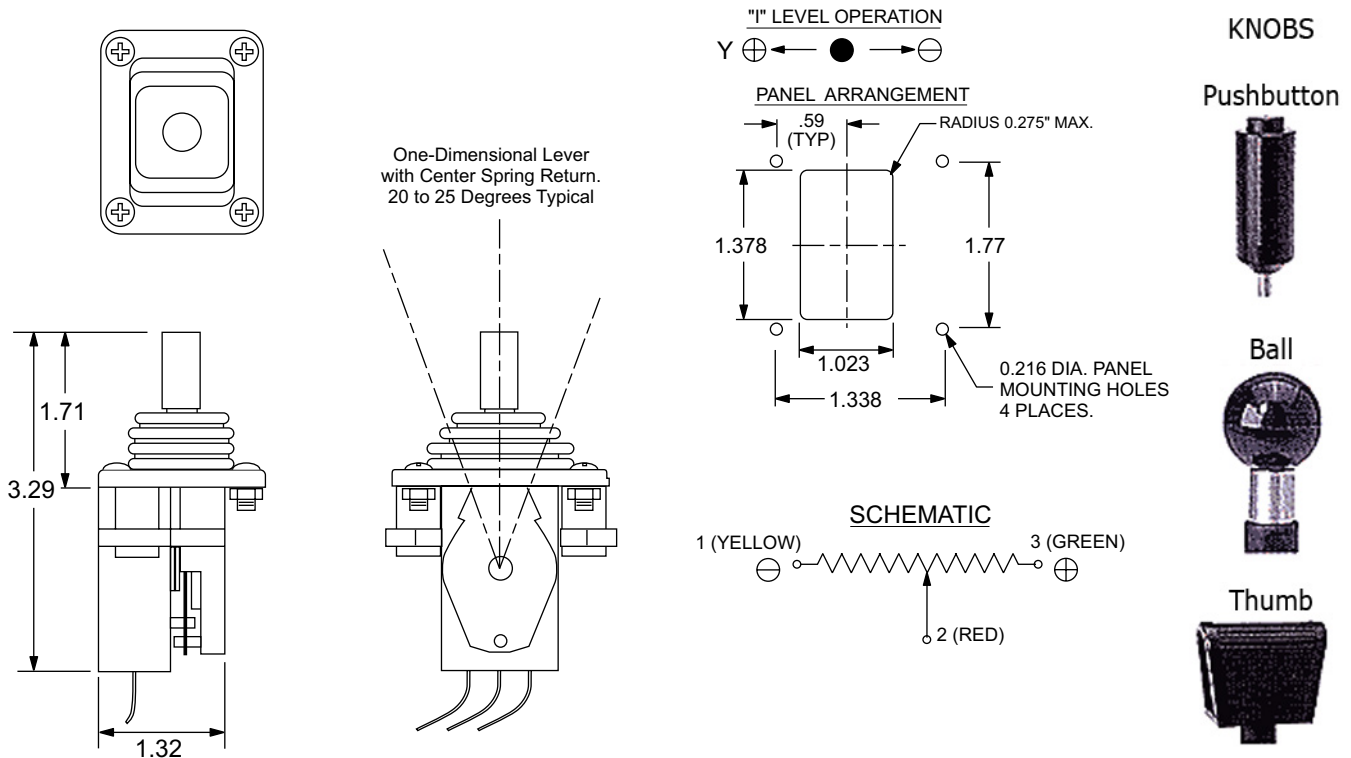
Mechanical Specifications

Mechanical Angle: $\pm 20^\circ \sim \pm 25^\circ$ from Center
Operating Force: Approx. .55~3.04 oz. in.
Weight: Approx. 21 oz.
Shock: 1.0 oz.
Life Expectancy: 2,000,000 cycles
Housing: High Temp. Thermoplastic

Environmental Specifications

Operating Temperature: -20°C to $+60^\circ\text{C}$
Environmental: IP65 rating above panel

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Ordering Information

Example Part Number: **J3L-Single-Ball-CT**

J3L	Single	Ball	CT
Model	Switch	Knob	Options
J3L	None: No switch (standard) Single: Single direction Dual: Dual direction Center: Center detect	Pushbutton Ball Thumb	FR = Friction clutch (holds position, replaces spring return) NS = Non-standard resistance value DG = Dual ganged pots CT = Center tapped pots IN = Inductive (non-contacting) pots SP = Sealed potentiometers WB = Without boot MP = Mounting plate

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