

# J3R Series "Rocker Pot" Single Axis Joystick



For more information about this product, visit our website at: [www.potentiometers.com](http://www.potentiometers.com)



**J3R Series "Rocker Pot" Single Axis Joystick**  
*Fine Precision Joystick Series*

## Features

- Single Axis Joystick
- 0.72" handle height
- 36° deflection angle ( $\pm 18^\circ$ )
- Spring return to center
- 10K ohm Conductive Plastic element
- IP54 rating

## Options

- Friction clutch (holds position, replaces spring return)
- Spring return to one end
- Center tapped potentiometer
- Non-standard resistance value

## Electrical Specifications

Resistance: 10K Conductive Plastic  
Independent Linearity:  $\pm 3\%$   
Power Rating: 0.1 Watts  
Electrical Angle:  $30^\circ \pm 5\%$   
Center Return Accuracy:  $50\% \pm 3\%$   
Resolution: Essentially Infinite  
Wiper Output: 1 mA Recommended, 5 mA max.  
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  
Vibration: 10-55 Hz, 10G  
Shock: 30G

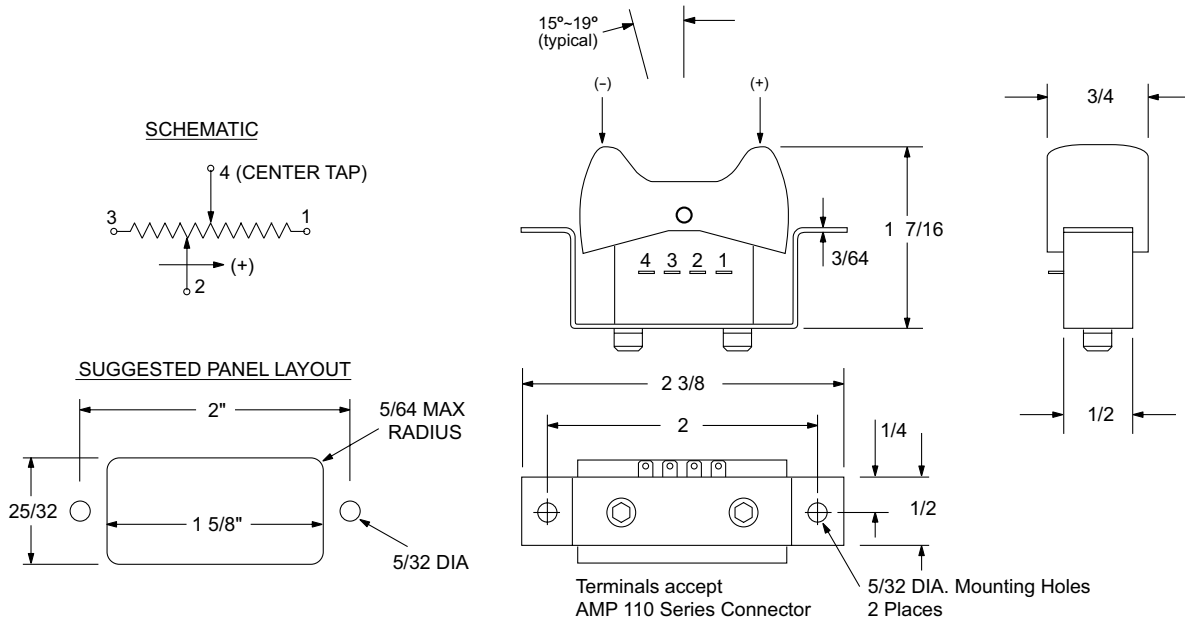
## Mechanical Specifications

Mechanical Angle:  $\pm 15^\circ \sim \pm 19^\circ$   
Starting Torque: .15~.18 oz. in.  
Weight: Approx. 0.7 oz.  
Stop Strength: Over 0.03 oz. in.  
Life Expectancy: 2,000,000 cycles  
Housing: High Temp. Thermoplastic  
Terminals: Gold Plated Brass

## Environmental Specifications

Operating Temperature:  $-20^\circ\text{C}$  to  $+65^\circ\text{C}$   
Environmental: IP54 rating

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## Ordering Information

Example Part Number: **J3R-Center-CT**

J3R	Center	CT
Model	Spring Return	Options
<b>J3R</b>	<p><b>Center:</b> Spring return to center (standard)</p> <p><b>End:</b> Spring return to one end</p> <p><b>Clutch:</b> Friction clutch (holds position, replaces spring return)</p>	<p><b>CT:</b> Center tapped potentiometer</p> <p><b>NS:</b> Non-standard resistance value</p>

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