


JB100 Series

Triple Axis Joystick Controller (Potentiometer)



- Triple Axis
- Vertical Z Axis with Spring Return
- 'Guided Feel', X and Y Axis
- Center Tap Option
- 5 mio. Operations (X,Y Axis)
- 2 mio. Operations (Z Axis)
-  RoHS

Electrical Data (Note 1)

Electrical Travel	X and Y Axis: 40° ($\pm 20^\circ$ from center) Z Axis: 30° ($\pm 15^\circ$ from center) Potentiometer inside knob
Resistance Value	10k Ω $\pm 15\%$ (X, Y and Z axis)
Independent Linearity Tolerance	$\pm 3\%$
Resolution	Infinite
Output Smoothness	< 0.2% against applied voltage
Contact Resistance Variation	< 5% C.R.V.
Dielectric Strength	500VAC, 1 minute
Insulation Resistance	> 1000M Ω at 500VDC
Rated Power	0.13W X, Y Axis (0.1W Z Axis)

• Special Specifications Available

Special resistance values, center tap potentiometers, custom cabling, spring return to end on Z axis, other customization to suit.

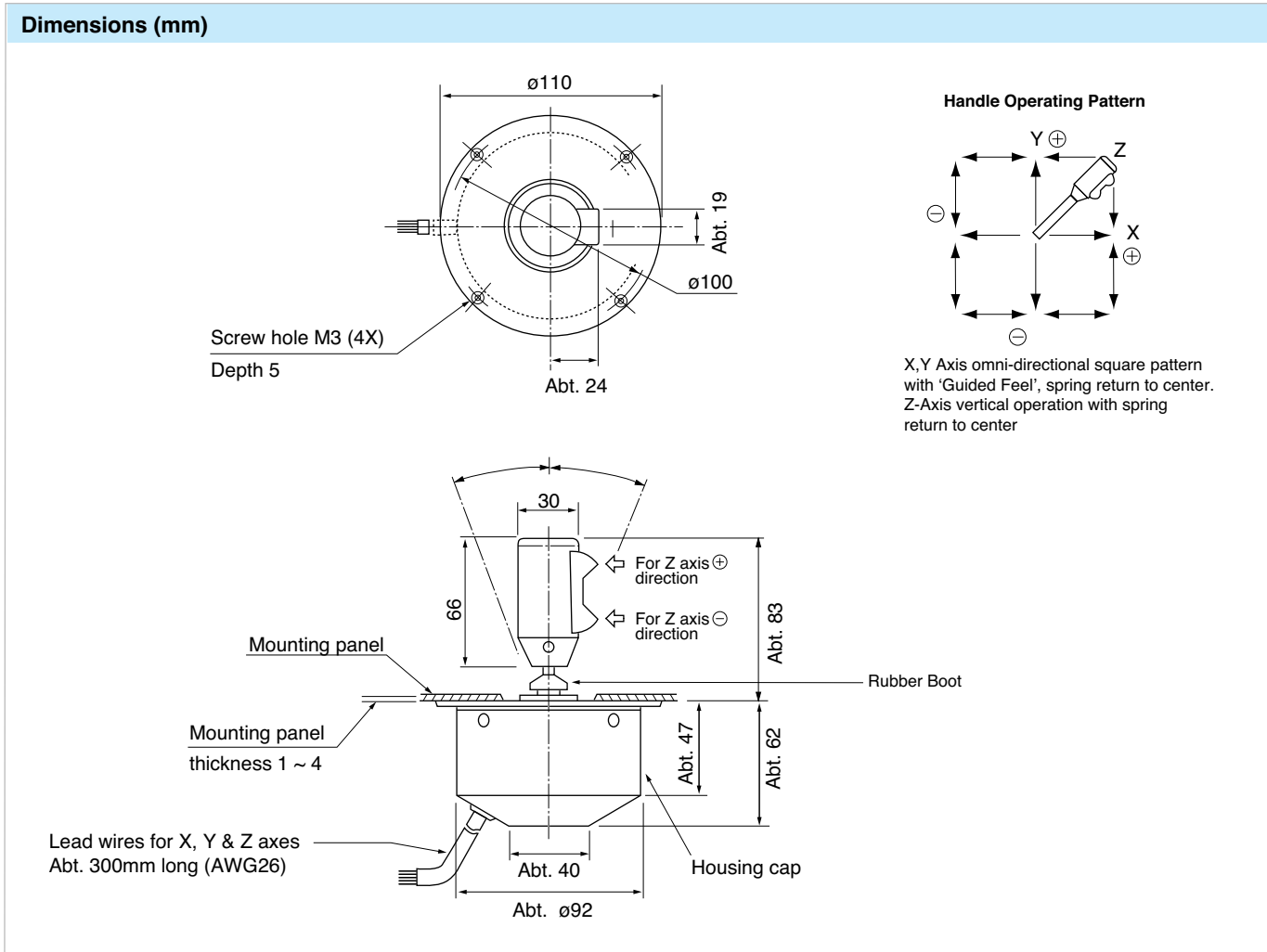
Note 1: Customers should test and verify device performance in any given application. General specifications values are measured at temperatures of +15°C ~ +35°C. Specifications are subject to change without notice.

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Mechanical Data (Note 1)	
Mechanical Travel	X, Y Axes: approx. $\pm 20^\circ \sim \pm 25^\circ$ from center Z Axis: approx. $\pm 15^\circ \sim \pm 19^\circ$ from center
Operating Force	X, Y, Axes: 0.8 ~ 2.3N (two springs, guided feel) X, Y Axes: 24 ~ 30mN · m
Operating Temperature	-20°C ~ +65°C
Vibration	10 ~ 55Hz 98m/s ² (10G)
Shock	30G
Life Expectancy	> 5,000,000 operations (> 2,000,000 Z Axis)
Protection Grade	IP40
Weight	approx. 410g

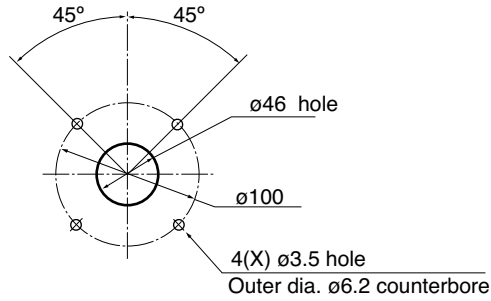


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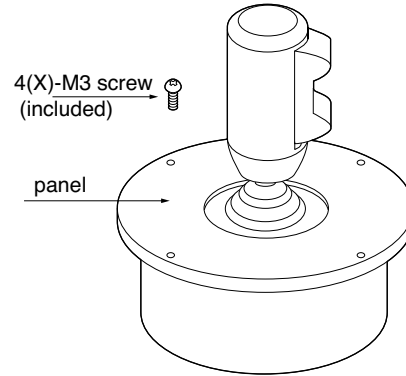
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Mounting Details

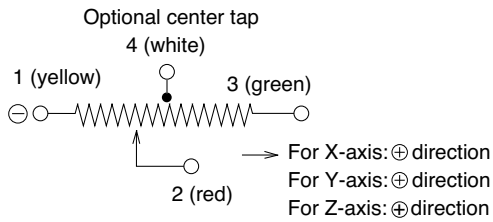
Panel Arrangements



Dimensions (mm)



X, Y & Z Axis Potentiometer Schematic



Terminals shall be leadwires, approx. 300mm length, AWG26