



Triple Axes

- 'See-Saw' Z Axis
- Spring Return - All Axes
- High Precision
- Long Life
- Smooth Operation

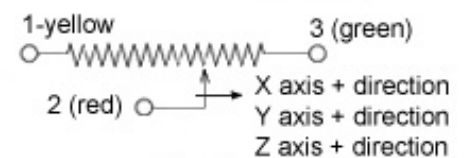
Industrial joystick controller features high precision conductive plastic potentiometers on all axes. Z axis features a spring return to center, see-saw type potentiometer for smooth finger control. Ideal for three dimensional coordinate control and suitable for industrial applications. Z axis see-saw potentiometer can be made to spring return to one end versus center.

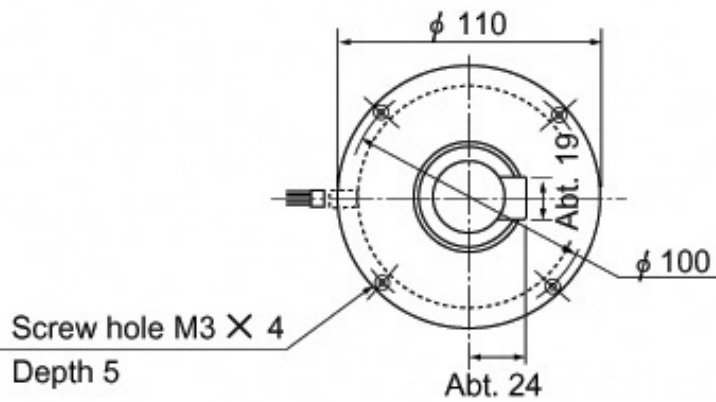
Technical Data

Handle Operating Angle	$\pm 20^\circ \dots \pm 25^\circ$ (X & Y axes)
See-Saw Operating Angle	$\pm 15^\circ \dots \pm 19^\circ$ (Z axis)
Operating Force (X & Y axes)	Approx. 0.8 to 2.3N (with standard spring return incorporated)
Operating Force (Z axis)	24 to 30 mNm
Operating Temperature	-20°C to +65°C
Vibration	10 - 55hz, 10g per MIL-STD-202F-204
Shock	30g per MIL-STD-202F-213
Life Span	typically 5 million operations (X, Y Axes) / 2 million operations (Z axis)
Weight	about 410 grams
Cable Length	300mm
Panel Thickness	1 ... 4 mm
IP Rating	40

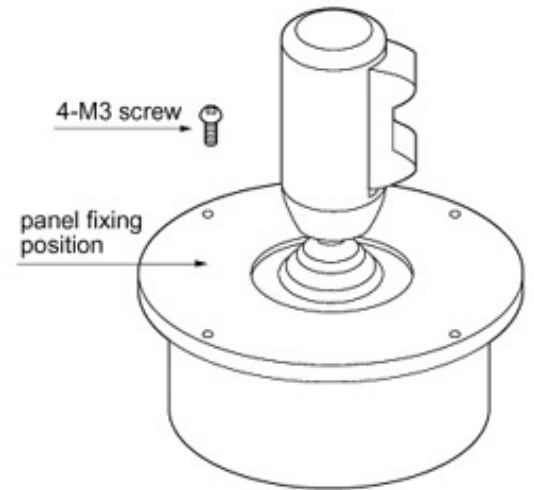
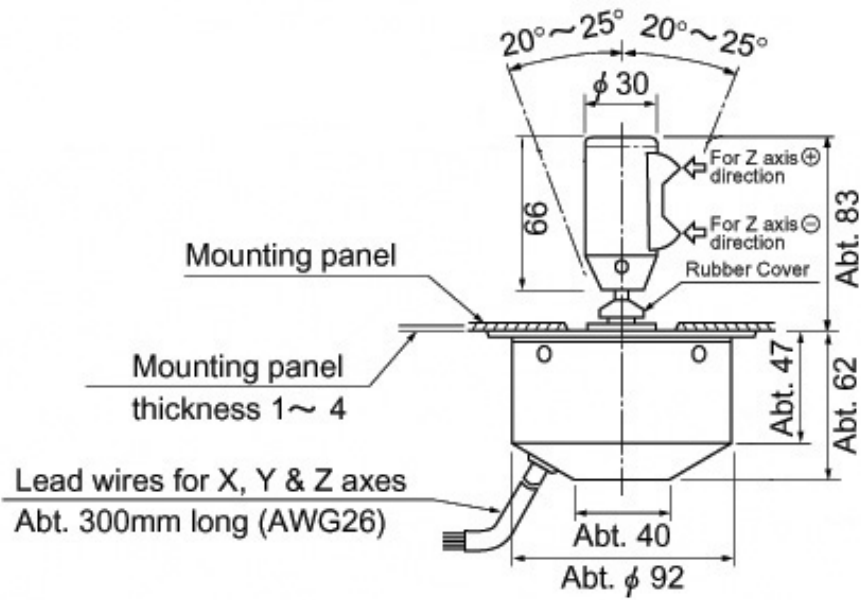
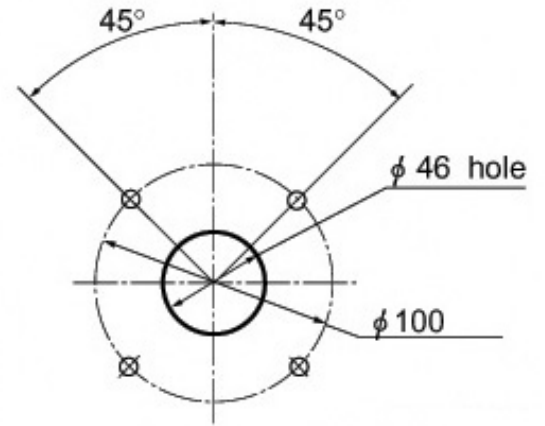
Potentiometer Specifications

Element	Conductive Plastic (co-molded)
Resolution	Essentially infinite
Resistance	10K ohm
Resistance Tolerance	$\pm 15\%$
Linearity	$\pm 3\%$
Power @ 40°C	0.13W (X, Y axes) / 0.3W (Z axis)
Electrical Angle	40° (X, Y axes) / 30° (Z axis)
Wiper Current	1mA max.

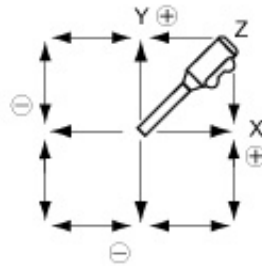




Panel Arrangements



Lever Operating Pattern



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