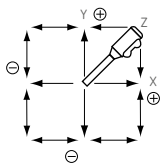
100JB

100 means approx. size of base housing in mm
J means joystick controller.
B means 3-dimensional coordinate pot. inside incorporated low cost type.
M means round shape.
Z means mechanisms of 3-dimensional coordinate type.
Available directions of lever operation as below illustration.
U : In addition to 360 square-directional operation, 3-dimensional coordinate operation is possible by the lever in which a seesaw type potentiometer is mounted.

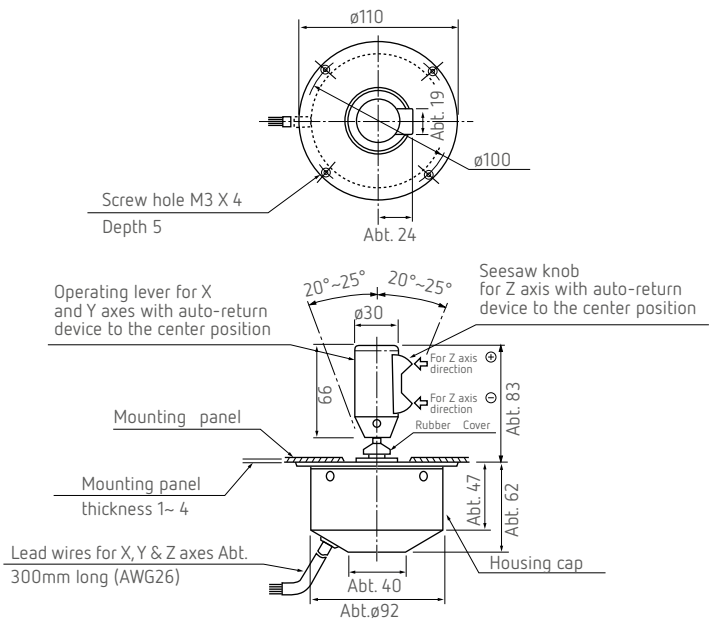
U



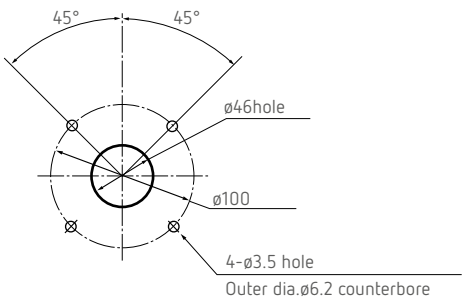
100	J	B	M	-	Z	U	-	3	0	R3	G

Number of potentiometers to be mounted.
3 potentiometers are incorporated.
Number of switches to be mounted.
0 no switch is incorporated.
With spring return device :
R3 : with spring return device for 3-dimensional coordinate type.
Mounting accessories : G : with dust proof rubber cover.

Standard Dimensions



Panel Arrangements



Note : 4 pcs. of mounting screws (M3 X8) are attached. (Unit : mm)

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Standard Specifications

Mechanical Performance

Controlling range of operating lever :
- 2-dimensional coordinate type : Omni-directionally approx. ±20°~±25° operation from center position.
- 3-dimensional coordinate type : Approx. ±15°~±19° operation from the center position of the seesaw knob, in addition to the controlling range of 2-dimensional coordinate type.

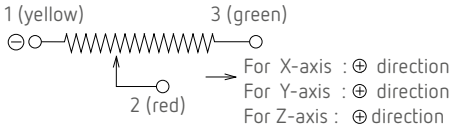
Operating force : Standard spring return device:Automatically return to center.
X, Y directions : Approx. 0.8~2.3N (80~230gf.) [with 2 springs(with directive feeling)as standard version]
Z direction : Approx. 24~30mN·m (240~300gf·cm)
Operating temperature range : -20°C~+65°C
Vibration : 10 55Hz 98m/s^2
Shock : 294m/s^2
Life expectancy: Approx. 5,000,000 operations for X and Y axes.
Approx. 2,000,000 operations for Z axis.
Mass : 3-dimensional coordinate type Approx. 410g

Electrical Performance

Potentiometers mounted :
- For X and Y axes (Electrical rotating angle : Approx. 40°) SFCP22E, 10kΩ±15% , 0.13W, Independent linearity tolerance ±3% (conductive plastic resistive element).
- For Z axis (Electrical rotating angle : Approx. 30°) Special potentiometer RMP30AY is exclusively used for seesaw knob. 10kΩ±15%, 0.1W, Independent linearity tolerance ±3%.

Output smoothness : Below 0.2% against input voltage.
Contact resistance variation: Below 5% C.R.V.
Resolution : Essentially infinite
Dielectric strength : 1 minute at 500V.A.C.
Insulation resistance : Over 1,000MΩ at 500V.D.C.

Terminal Connection Diagram



Note: 1) Terminals shall be lead-wire terminals with approx. 300mm long.(AWG26)

100JBM-ZU-30R3G
(Standard)
(3-dimensional coordinate type)

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