100JB

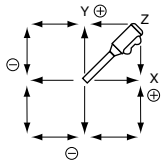
Potentiometer with a conductive plastic resistive element

Nomenclature

- **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.

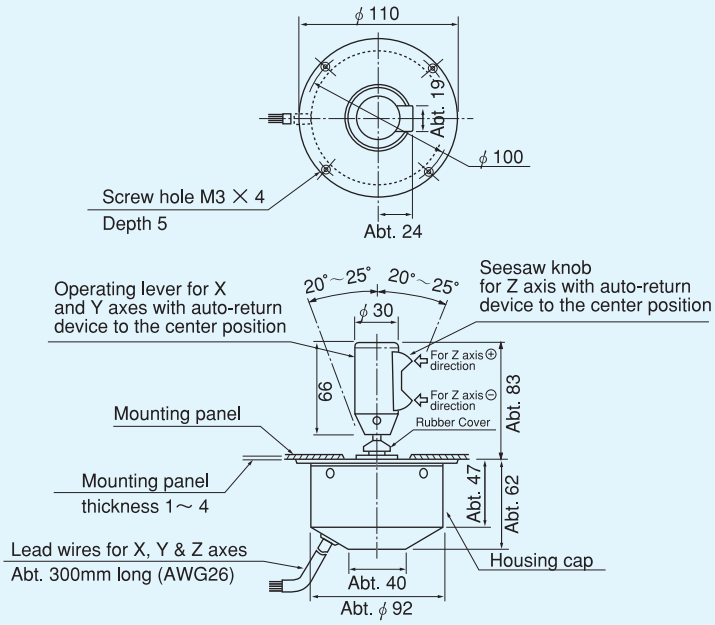
U



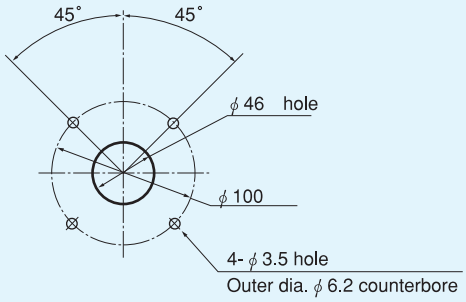
100 **J** **B** **M**-**Z** **U**-**3** **0** **R3** **G**

Number of potentiometers to be mounted.
3···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 × 8) are attached.

(Unit : mm)

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

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/s²
Shock : 294m/s²
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

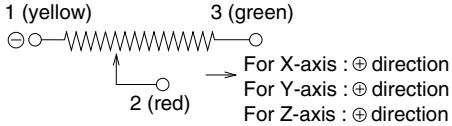
●Electrical Performance

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)

●Special Specifications Available

Please see page 47, table of “Standard and Special Speciffications Available”.