

H25JB

● 2-dimensional coordinate ● With a hall effect IC

Nomenclature

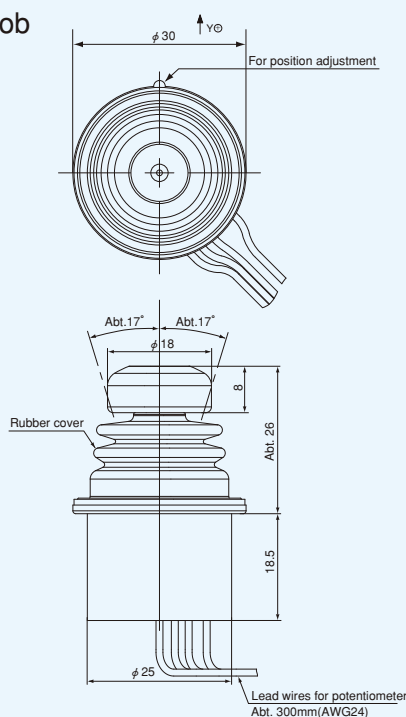
- S means special mechanical specifications not applicable to our standards.
- H means hall effect IC type resistive element incorporated.
- 25 means approx. size of base housing in mm.
- J means joystick controller.
- B means the potentiometer is incorporated inside housing case.
- M means round shape.
- Mechanism
- Y means 2-dimensional coordinate.
- Available directions of lever operation
- O:Omni-directional 360° operating type.

S H 25 J B M - Y O - 2 S 0 R2 G 0 0 - 00000

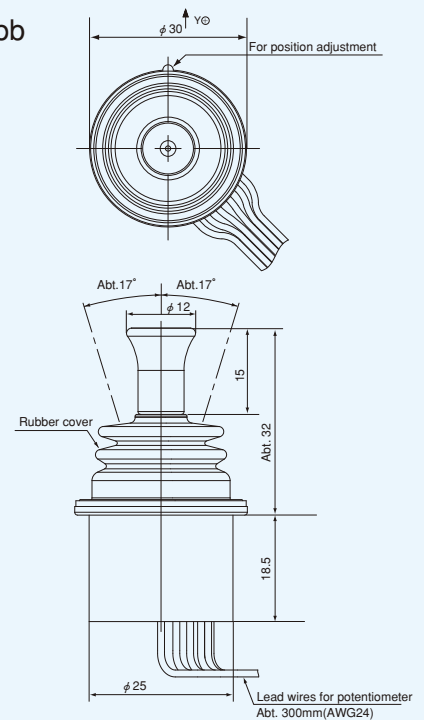
- Number of potentiometers to be incorporated
2...2 potentiometers incorporated.
- Number of output and kind of output characteristic
S...Single output X...Dual cross output P...Dual parallel output
- Number of switches to be incorporated
0... No switch incorporated 1...With 1 push button switch
- With spring return device
R2...With spring return device for 2 dimensional coordinate.
- Mounting accessories:
G: With dust proof rubber cover.
- Shape of knob:
M:M type knob as shown on the below sketch
B:B type knob as shown on the below sketch
S:Special shaped knob
- Mounting method
U:Joystick mounted from above panel
D:Joystick mounted from under panel
- Special part number
In the case we produce customized product, we add 4 or 5 digit branch number.

Standard Dimensions

With M type knob



With B type knob





H25JBM-YO-2S0R2GMU



H25JBM-YO-2S0R2GBU

STANDARD SPECIFICATIONS

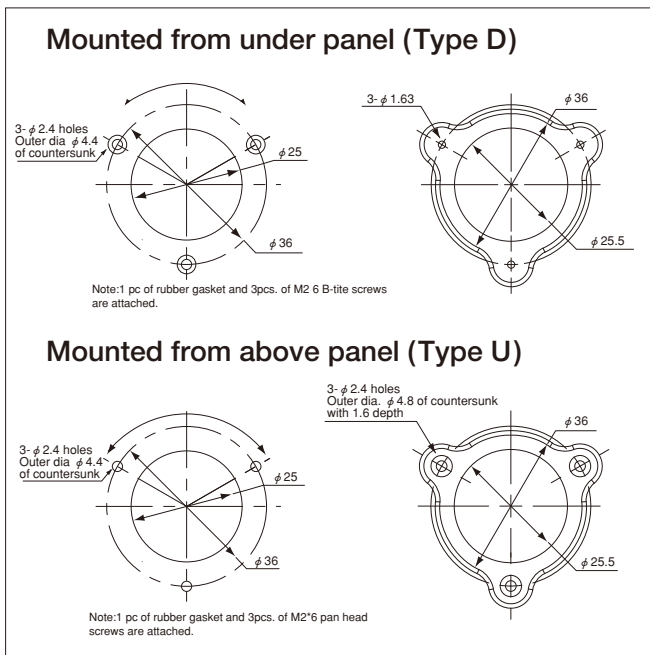
Mechanical Performance

Controlling range of operating lever	Omni-directionally approx. $\pm 17^\circ$ from center position
Operating force	Spring return device (Automatically return to center) X&Y directions: Approx. 1N~2.5N
Operating temperature range	$-20^\circ\text{C} \sim +60^\circ\text{C}$
Vibration	10Hz~55Hz 98m/s ²
Shock	294m/s ²
Mechanical life expectancy	Approx. 2,000,000 operations
Mass	Single output type: Approx. 22g Dual output type: Approx. 24g
Lever strength	X and Y axes : Abt. 50N (Static load on the knob) Rotation of the knob : Abt. 200mN · m

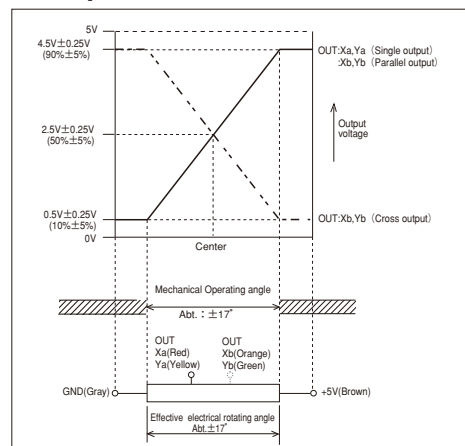
Electrical Performance

Applied voltage	D. C. 5V $\pm 10\%$
Effective output	0.5V~4.5V
Electrical rotating angle	X&Y directions: Approx. $\pm 17^\circ$ (Approx.34°)
Independent linearity tolerance	$\pm 3\%$ FS
Load resistance	Over 10k Ω
Dielectric strength	1 minute at A. C. 500V
Insulation resistance	Over 1,000M Ω at D. C. 500V
EMS tolerance	100V/m (80MHz~1GHz 1kHz sine-wave 80%AM modulation)
ESD tolerance	$\pm 8\text{kV}$ contact $\pm 15\text{kV}$ air discharge (Based on IEC61000-4-2)

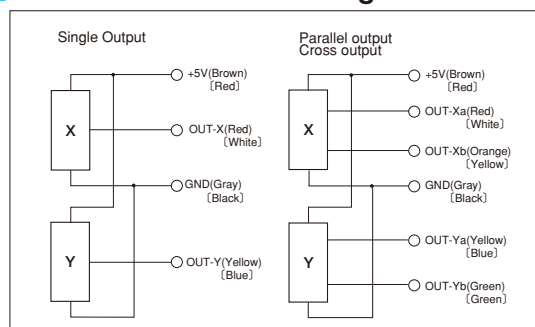
Panel Arrangements



Output Characteristic



Terminal Connection Diagram



Note: Colors shown in square brackets are colors for lead wires when H25JB model is assembled on the mini cobra shaped knob (p.42).

Special Specifications Available

Please see page 55, a table of "Special Specifications Available".