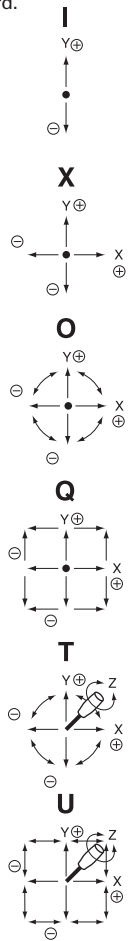
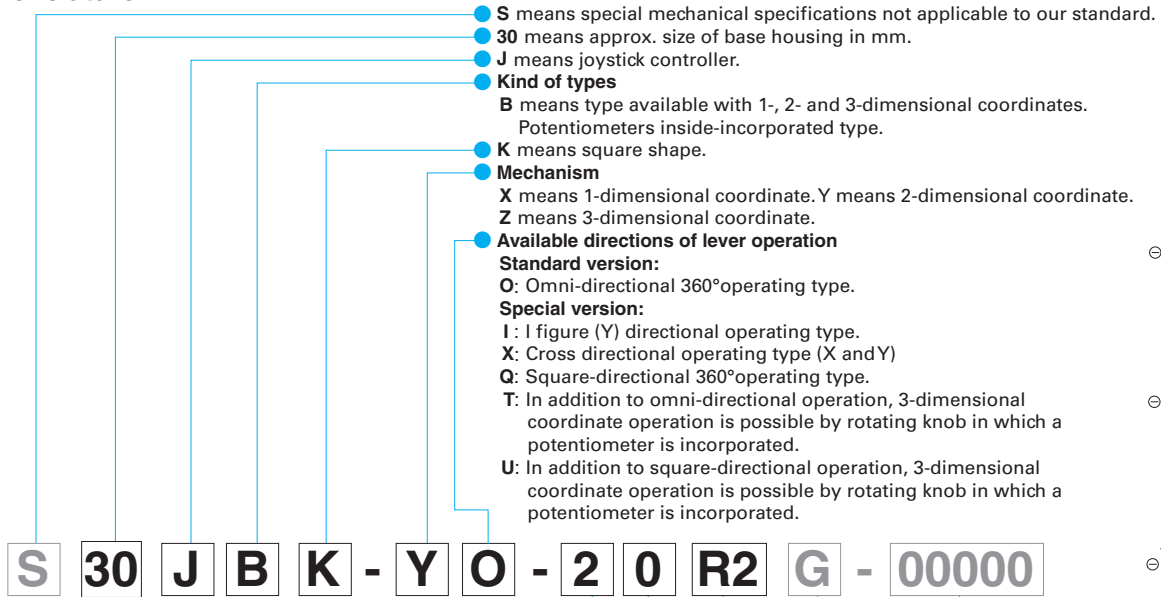


30JB

● Potentiometer incorporated type ● With conductive plastic element

● Nomenclature



Number of potentiometers to be incorporated only for 30JBK.

0...no potentiometer incorporated. 1...1 potentiometer incorporated. 2...2 potentiometers incorporated. 3...3 potentiometers incorporated.

Number of switches to be incorporated.

0...no switch incorporated. 1...1 switch incorporated. 2...2 switches incorporated.

With spring return device : R1: with spring return device for 1-dimensional coordinate.

R2: with spring return device for 2-dimensional coordinate.

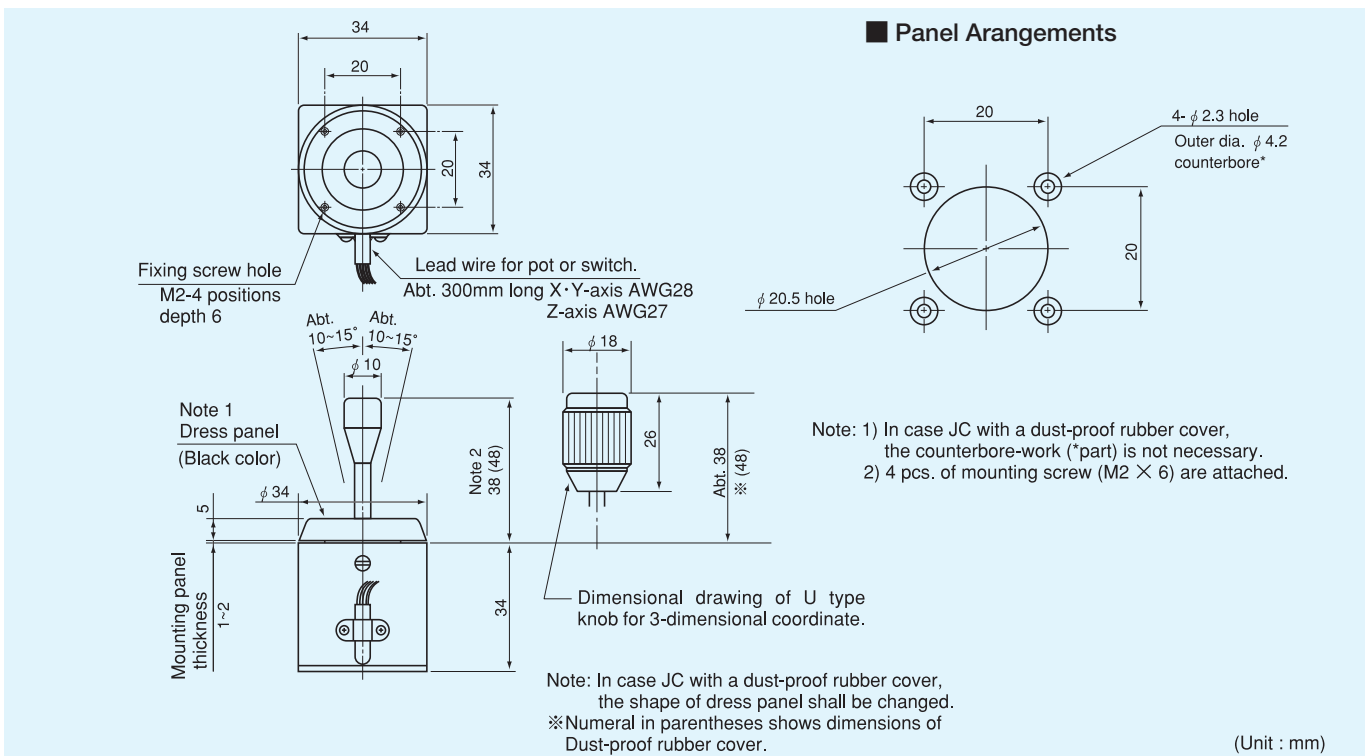
R3: with spring return device for 3-dimensional coordinate.

Mounting accessories : G: with dust proof rubber cover. P: with sub-panel for mounting.

Special part number:

In case we produce customized products, we add 4 or 5-digit branch number.

● Standard Dimensions



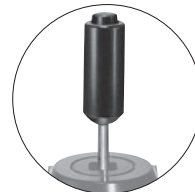


30JBK-YO-20R2
(Standard
2-dimensional coordinate type)



30JBK-ZT-30R3G
(3-dimensional coordinate type with
dust proof rubber cover)

Special Knobs Available
For detailed dimensions, please refer to page 52.



Knob 104



Knob 304

STANDARD SPECIFICATIONS

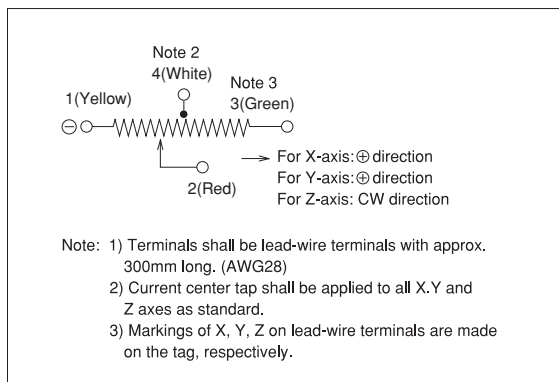
Mechanical Performance

Controlling range of operating lever	X and Y directions : Approx. $\pm 10^\circ \sim \pm 15^\circ$ from center position. (Omni-directionally) Z direction : Approx. $\pm 30^\circ \sim \pm 35^\circ$ from center position.
Operating force (Standard spring return device Automatically return to center) (Omni-directionally)	X and Y directions : Approx. 0.8~2N (80~200gf) Z direction : Approx. 15~60mN·m (150~600gf.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
Mass	2-dimensional coordinate type : Approx. 80g 3-dimensional coordinate type : Approx. 100g

Electrical Performance

Potentiometers mounted	Special conductive plastic resistive element is exclusively used for 30JB series. <table border="0"> <tr> <td>(X and Y axes pots)</td> <td>(Z axis pot.)</td> </tr> <tr> <td>Resistance value : 10kΩ±15%</td> <td>Resistance value : 10kΩ±15%</td> </tr> <tr> <td>Rating : 0.1W</td> <td>Rating : 0.04W</td> </tr> <tr> <td>Electrical rotating angle : Approx. 20°</td> <td>Electrical rotating angle : Approx. 60°</td> </tr> <tr> <td>Independent linearity tolerance : ±3%</td> <td>Independent linearity tolerance : ±3%</td> </tr> </table>	(X and Y axes pots)	(Z axis pot.)	Resistance value : 10kΩ±15%	Resistance value : 10kΩ±15%	Rating : 0.1W	Rating : 0.04W	Electrical rotating angle : Approx. 20°	Electrical rotating angle : Approx. 60°	Independent linearity tolerance : ±3%	Independent linearity tolerance : ±3%
(X and Y axes pots)	(Z axis pot.)										
Resistance value : 10kΩ±15%	Resistance value : 10kΩ±15%										
Rating : 0.1W	Rating : 0.04W										
Electrical rotating angle : Approx. 20°	Electrical rotating angle : Approx. 60°										
Independent linearity tolerance : ±3%	Independent linearity tolerance : ±3%										
Output smoothness	Below 0.2% against input voltage										
Contact resistance variation	Below 6% 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



Special Specifications Available

Please see page 51, a table of "Standard and Special Specifications Available".