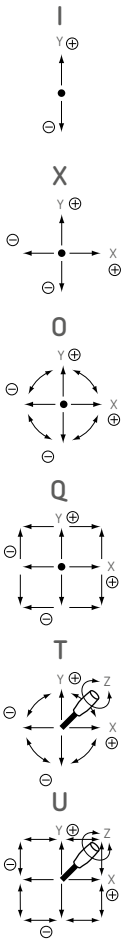
Model 30JB

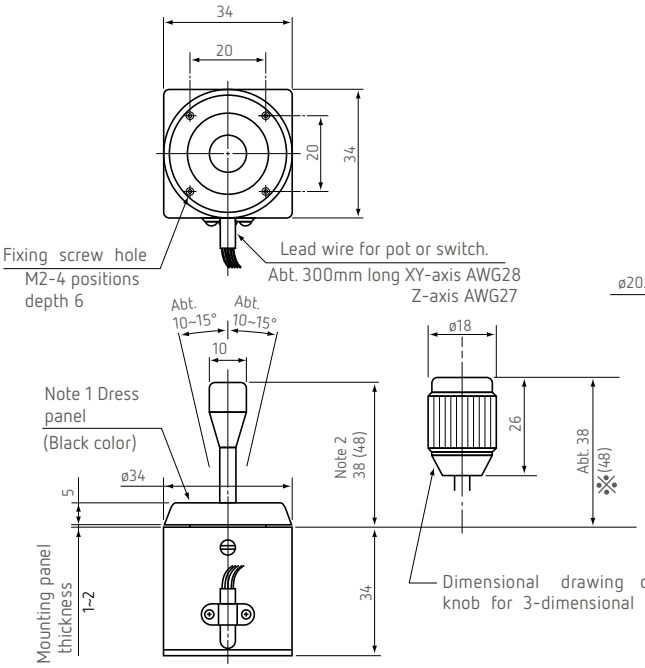
S means special mechanical specifications not applicable to our standard.
30 means approx. size of base housing in mm.
J means joystick controller.
Kind of types
B means type available with 1-, 2- and 3-dimensional coordinates.
Potentiometers inside-incorporated type.
K means square shape.
Mechanism
X means 1-dimensional coordinate. **Y** means 2-dimensional coordinate.
Z means 3-dimensional coordinate.
Available directions of lever operation
Standard version:
O: Omni-directional 360° operating type.
Special version:
I: I figure (Y) directional operating type.
X: Cross directional operating type (X and Y)
Q: Square-directional 360° operating type.
T: In addition to omni-directional operation, 3-dimensional coordinate operation is possible by rotating knob in which a potentiometer is incorporated.
U: In addition to square-directional operation, 3-dimensional coordinate operation is possible by rotating knob in which a potentiometer is incorporated.



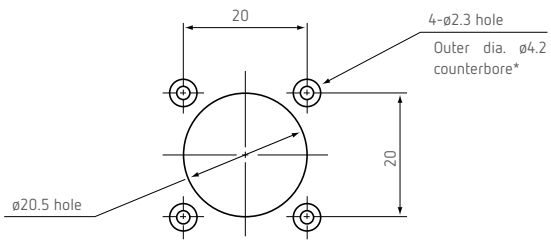
S	30	J	B	K	-	Y	O	-	2	O	R2	G	-	0000

Number of potentiometers to be incorporated only for 30JBK.
0 potentiometer incorporated. **1** potentiometer incorporated.
2 potentiometers incorporated. **3** potentiometers incorporated.
Number of switches to be incorporated.
0 switch incorporated. **1** switch incorporated.
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-digit branch number.

Standard Dimensions



■ Panel Arrangements



Note: 1) In case JC with a dust-proof rubber cover, the counterbore-work (*part) is not necessary.
2) 4 pcs. of mounting screw (M2 X 6) are attached.

Note: In case JC with a dust-proof rubber cover, the shape of dress panel shall be changed.
※ Numeral in parentheses shows dimensions of Dust-proof rubber cover.

(Unit : mm)

10.2015 | version 20110726

Standard Specifications

Model 30JB Series
(Potentiometer inside-incorporated type)

Mechanical Performance

Controlling range of operating lever :
X and Y directions : Approx.±10°~±15° from center position.(Omni-directionally)
Z direction: Approx.±30°~±35° 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

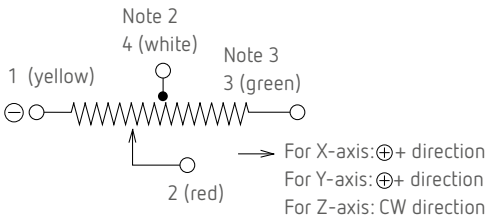
Potentiometers mounted : Special conductive plastic resistive element is exclusively used for 30JB series.

(X and Y axes pots)
Resistance value : 10kΩ±15%
Rating : 0.1W
Electrical rotating angle : Approx.20°
Independent linearity tolerance : ±3%

(Z axis pot.)
Resistance value : 10kΩ±15%
Rating : 0.04W
Electrical rotating angle : Approx.60°
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 1,000M at 500V.D.C.

Terminal Connection Diagram



Note: 1) Terminals shall be lead-wire terminals with approx. 300mm long. (AWG28)
2) Current center tap shall be applied to all X.Y and Z axes as standard.
3) Markings of X, Y, Z on lead-wire terminals are made on the tag, respectively.

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

30JBK-ZT-30R3
(standard)
(3-dimensional coordinate type)

10.2015 | version 20110726