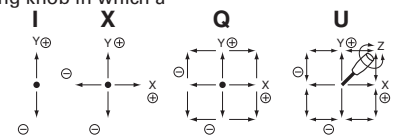
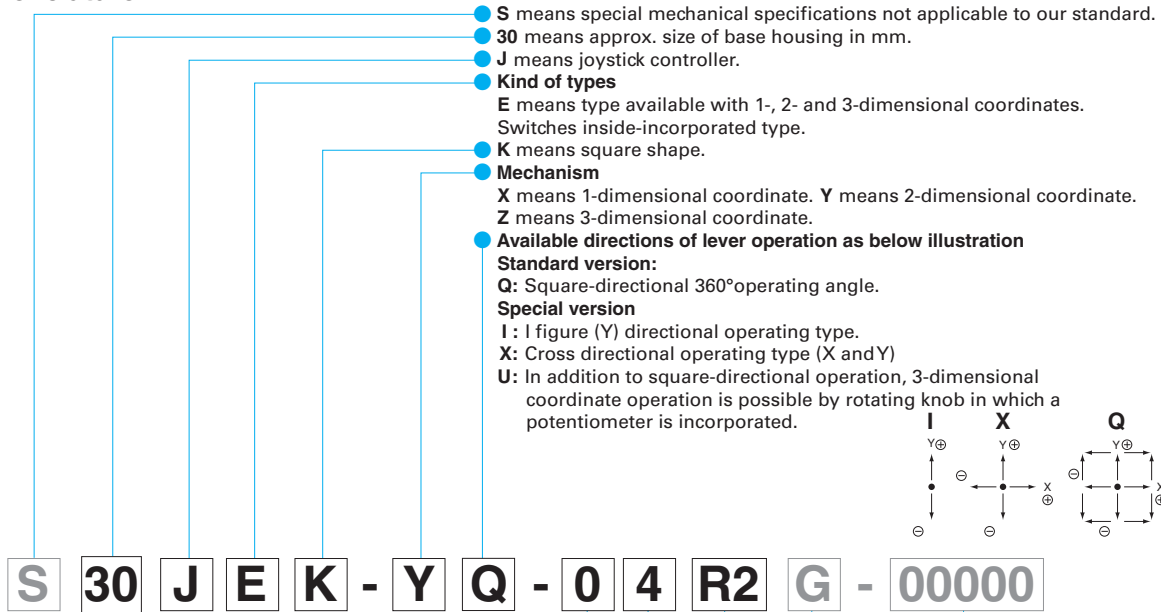


30JE

● Switch incorporated type

● Nomenclature



Number of potentiometers to be incorporated.

0...no potentiometer incorporated.

Number of switches to be incorporated.

1...1 switch incorporated. 2...2 switches incorporated. 3...3 switches incorporated.

4...4 switches incorporated. 5...5 switches incorporated. 6...6 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.

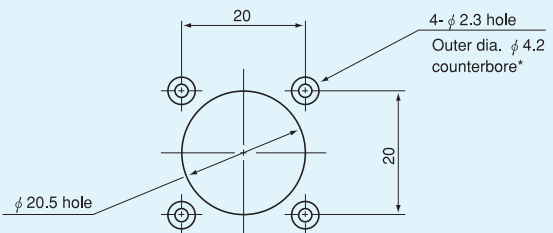
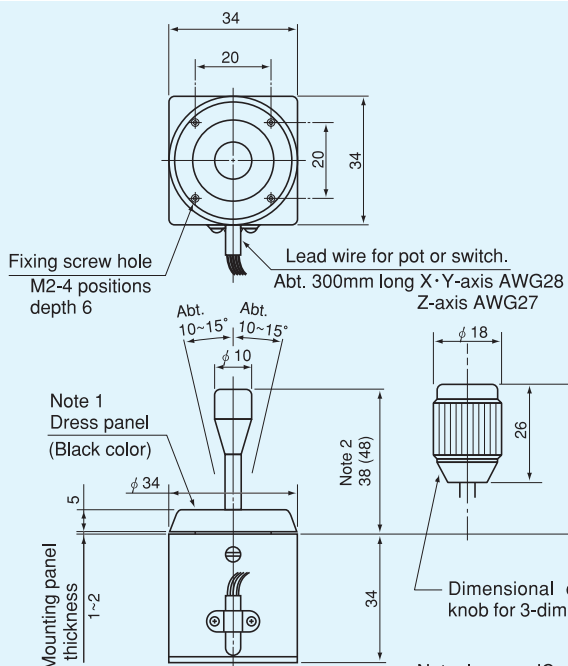
Mounting accessories : G: with dust proof rubber cover. P: with sub-panel for mounting.

Special part number :

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

● Standard Dimensions

■ 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 × 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)



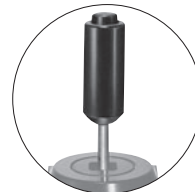
30JEK-YQ-04R2
(Standard 2-dimensional coordinate type)



30JEK-ZU-06R3G
(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. Z direction : Approx. $\pm 30^\circ \sim \pm 35^\circ$ from center position.
Operating force (Standard spring return device Automatically return to center)	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. 1,000,000 operations.
Mass	2-dimensional coordinate type : Approx. 80g 3-dimensional coordinate type : Approx. 100g

Electrical Performance

Switches used (Resistance load)	Rating 24V.D.C., 50mA [In case of 3-dimensional coordinate and Z-axis switch-inside-knob incorporated type U, the ratings are 24V.D.C., 100mA.]
Dielectric strength	1 minute at 500V.A. C.
Insulation resistance	Over 100MΩ at 250V.D.C.

Terminal Connection Diagram

- Switches of each axis will be "on" at both end of each axis.
- Note 1) Terminals shall be lead-wire terminals with approx. 300mm long. (AWG28)
- 2) Colors of micro-switch connection leads are shown in parenthesis.
- (For X-axis) SW1 (green 2 leads): ON up to ⊖ directional end from center position
SW2 (white 2 leads): ON up to ⊕ directional end from center position
- (For Y-axis) SW3 (yellow 2 leads): ON up to ⊖ directional end from center position
SW4 (red 2 leads): ON up to ⊕ directional end from center position
- (For Z-axis) SW5 (orange 2 leads): ON up to CW directional end from center position
SW6 (gray 2 leads): ON up to CCW directional end from center position

Special Specifications Available

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