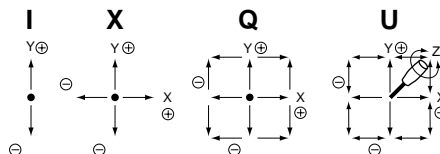


# 30JE

## Nomenclature

- **S** means special mechanical specifications not applicable to our standards.
- **30** means approx. size of base housing in mm.
- **J** means joystick controller.
- **Kind of types**  
**E** means type available with 1-, 2- and 3-dimensional coordinates.  
 Switches 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 as below illustration.**  
 Type Q (30JE) our standard version.



**S** **30** **J** **E** **K-Y** **Q-0** **4** **R2** **G** - **0000**

**Number of potentiometers to be mounted.** ●  
 0...no potentiometer mounted.

**Number of switches to be mounted.** ●

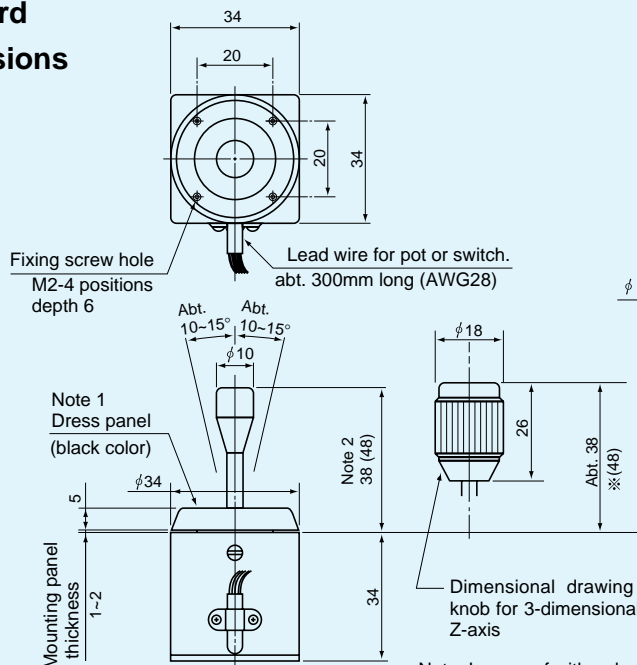
1...1 switch mounted. 2...2 switches mounted. 3...3 switches mounted.  
 4...4 switches mounted. 5...5 switches mounted. 6...6 switches mounted.

**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.

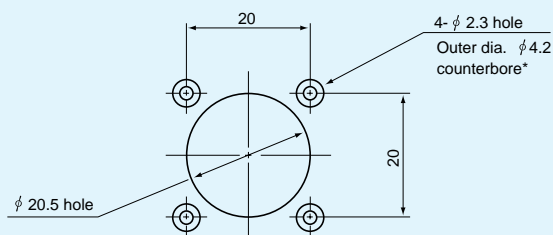
**Mounting accessories :** **G**: with dust proof rubber cover. **P**: with sub-panel for mounting. ●

**Special part number basing on customer's specifications with 4 digits number.** ●

## Standard Dimensions



## Panel Arrangements



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

Note: In case of with a dust-proof rubber cover, the shape of dress panel shall change.  
 ※ Numeral in parentheses shows that of with a dust-proof rubber cover.

(Unit : mm)



**30JEK-YQ-04R2**  
(standard)

(2-dimensional coordinate type)



**30JEK-ZU-06R3**  
(standard)

(3-dimensional coordinate type)

## STANDARD SPECIFICATIONS

Model 30JE Series  
(Switch inside-incorporated type)

### ●Mechanical Performances

#### 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 (With standard automatically center returning spring return device)

X and Y directions : Approx. 0.8~2N (80~200gf)

Z direction : Approx. 15~60mN·m (150~600gf.cm)

#### Operating temperature range : $-20^\circ\text{C} \sim +65^\circ\text{C}$

Vibration : 10~55Hz 98m/s<sup>2</sup> (10G)

Shock : 294m/s<sup>2</sup> (30G)

Life expectancy : Approx. 1,000,000 operations

Mass : 2-dimensional coordinate type : Approx. 80g

3-dimensional coordinate type : Approx. 100g

### ●Electrical Performances

Switches used : Rating 24V.D.C., 50mA

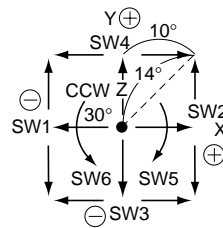
(resistance load)

[In case of 3-dimensional coordinate 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 operate at both ends of operational directions of operating lever and rotary knob.

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  $\ominus$  directional end from center position

SW2 (white 2 leads): ON up to  $\oplus$  directional end from center position

(For Y-axis) SW3 (yellow 2 leads): ON up to  $\ominus$  directional end from center position

SW4 (red 2 leads): ON up to  $\oplus$  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 41, a table of "Standard and Special Specifications Available".