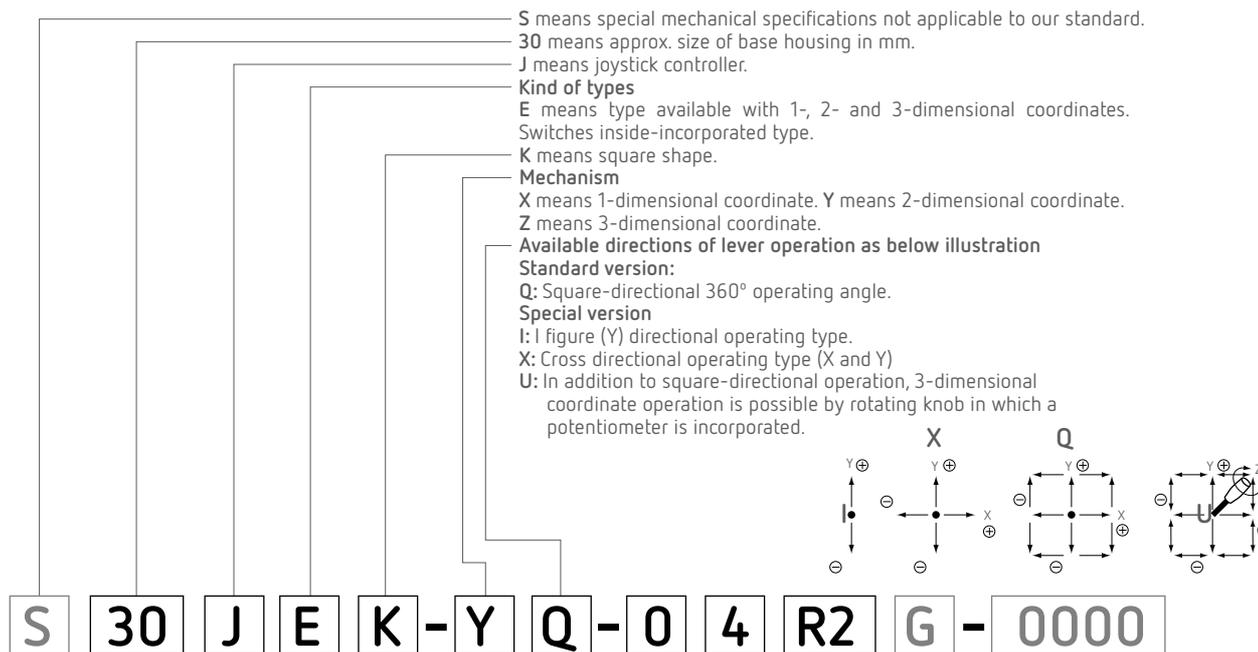




## Model 30JE



Number of potentiometers to be incorporated.

0 no potentiometer incorporated.

Number of switches to be incorporated.

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

4 switches incorporated. 5 switches incorporated. 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:

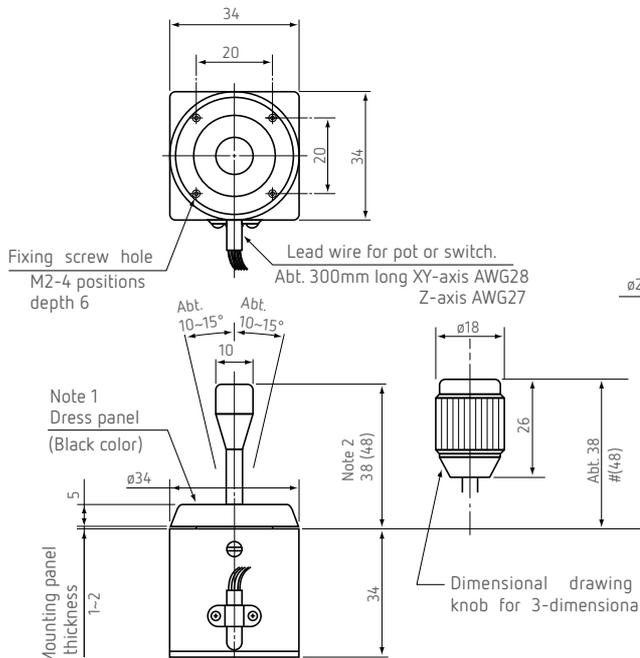
with spring return device for 3-dimensional coordinate.

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

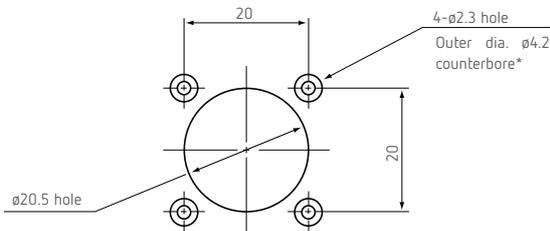
Special part number :

In case we produce customized products, we add 4-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)

■ **Standard Specifications**

**Model 30JE Series**  
(Switch inside-incorporated type)

**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<sup>2</sup>

**Shock :** 294m/s<sup>2</sup>

**Life expectancy :** Approx. 1,000,000 operations.

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

3-dimensional coordinate type : Approx. 100g



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



**30JEK-ZU-06R3**  
(Standard)  
(3-dimensional coordinate type)

**Electrical Performance**

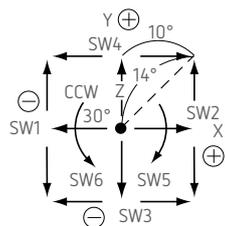
**Switches used :** Rating 24V.D.C.,  
50mA (Resistance load)

[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