## Nomenclature

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
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 Standard version:
Q: Square-directional $360^{\circ}$ operating angle.
Special version
I: I figure $(\mathrm{Y})$ directional operating type.
$X$ : Cross directional operating type ( X and Y )
$\mathrm{U}:$ In addition to square-directional operation, 3-dimensional
coordinate operation is possible by rotating knob in which a
potentiometer is incorporated. I X $\mathbf{X}$



## S 30 J E K-Y Q-0 4 R2 G-00000

Number of potentiometers to be incorporated .
$0 \cdots$ no potentiometer incorporated.
Number of switches to be incorporated.
$1 \cdots 1$ switch incorporated. 2 $\cdots 2$ switches incorporated. 3 $\cdots 3$ switches incorporated.
$4 \cdots 4$ switches incorporated. $5 \cdots 5$ switches incorporated. $6 \cdots 6$ 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 or 5-digit branch number.



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)

## OMechanical Performance

## Controlling range of operating lever :

$X$ and $Y$ directions : Approx. $\pm 10^{\circ} \sim \pm 15^{\circ}$ from center position.
$Z$ direction $\quad: A p p r o x . ~ \pm 30^{\circ} \sim \pm 35^{\circ}$ from center position.
Operating force (Standard spring return device : Automatically return to center)
$X$ and $Y$ directions : Approx. $0.8 \sim 2 \mathrm{~N}$ ( $80 \sim 200 \mathrm{gf}$ )
Z direction : Approx. $15 \sim 60 \mathrm{mN} \cdot \mathrm{m}(150 \sim 600 \mathrm{gf} . \mathrm{cm})$
Operating temperature range : $-20^{\circ} \mathrm{C} \sim+65^{\circ} \mathrm{C}$
Vibration : 10~55Hz 98m/s²
Shock : 294m/s ${ }^{2}$
Life expectancy : Approx. 1,000,000 operations.
Mass : 2-dimensional coordinate type : Approx. 80g
3-dimensional coordinate type : Approx. 100 g

## Electrical Performance

Switches used : Rating 24V.D.C., 50 mA
(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 500 V .A. C.
Insulation resistance : Over $100 \mathrm{M} \Omega$ at 250 V.D.C.

## Terminal Connection Diagram



## Special Specifications Available

Please see page 47, a table of "Standard and Special Specifications Available".

