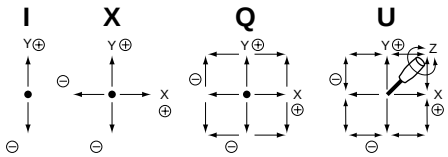
30JE

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.

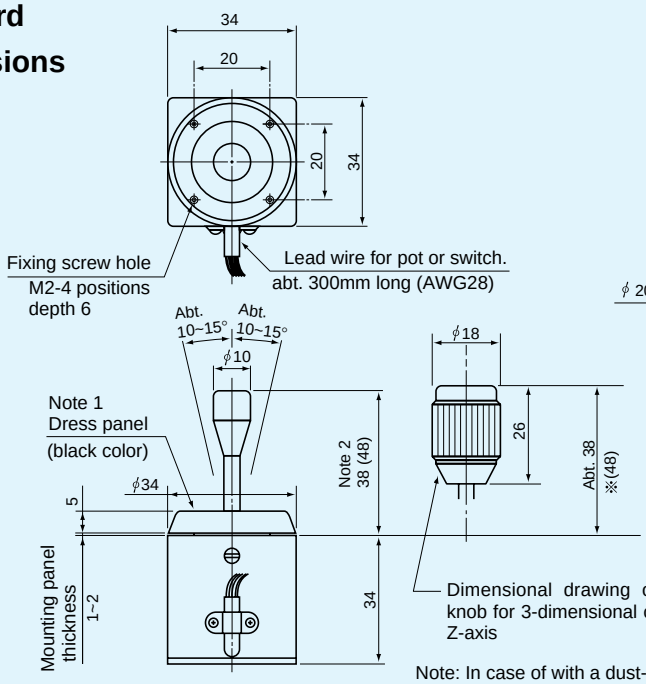
Number of switches to be mounted.
1…1 switch mounted. **2**…2 switches mounted. **3**…3 switches mounted.
4…4 switches mounted. **5**…5 switches mounted. **6**…6 switches mounted.

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.

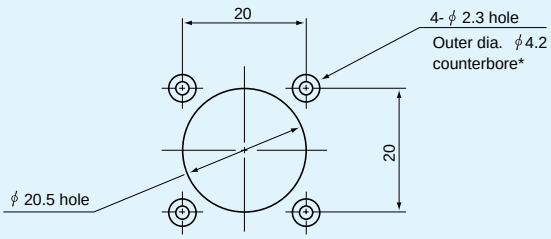
Special part number basing on customer's specifications with 4 digits number.

Standard Dimensions



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.

■ 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.

(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.±10°～±15° from center position
Z direction : Approx.±30°～±35° from center position.

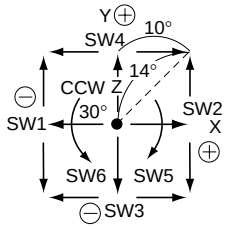
Operating force (With standard automatically center returning spring return device)
X and Y directions : Approx.0.8～2N (80～200gf)
Z direction : Approx.15～60mN·m (150～600gf.cm)

Operating temperature range : -20°C～+65°C
Vibration : 10～55Hz 98m/s^2 (10G)
Shock : 294m/s^2 (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 ⊖ 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 41, a table of “Standard and Special Specifications Available”.