

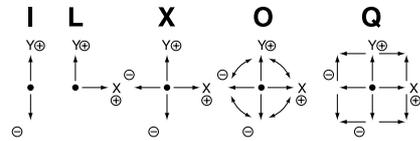
L50JA

New Product

New Inductance Type
Contactless Potentiometer inside-incorporated

Nomenclature

- **S** means special mechanical specifications not applicable to our standards.
- **L** means contactless potentiometer mounted as well as larger output at plus output.
- **50** means approx. size of base housing in mm.
- **J** means joystick controller.
- **A** means type available with 1- and 2-dimensional coordinates and potentiometers outside-mounted type.
- **K** means square shape.
- **Y** means kind of mechanism: **X** means 1-dimensional coordinate. **Y** means 2-dimensional coordinate.
- **Available directions of lever operation as below illustration.**
(Standard Version)
 - : Omni-directionally 360° operating type.
 (Special Version)
 - ⊥ : ⊥ figure (Y) direction only operating type.
 - ⊂ : ⊂ figure (+Y, +X only) direction operating type.
 - ⊕ : ⊕ figure (+) of X and Y operating type
 - ⊞ : ⊞ figure 360° operating type.
 - ⊞ : ⊞ figure 360° operating type.



S **L** **50** **J** **A** **K** - **Y** **O** - **2** **0** **R2** **G** - **0000**

Number of potentiometers to be mounted.

- 0...no potentiometer mounted.
- 1...1 potentiometer mounted.
- 2...2 potentiometers mounted.

Number of switches to be mounted.

- 0...no switch mounted.
- 1...1 switch mounted.
- 2...2 switches mounted.
- 3...3 switches mounted.
- 4...4 switches mounted.
- 5...5 switches mounted.
- 6...6 and over 6 switches mounted.
- 9...other switches to your special request.

With spring return device :

- R1** : with spring return device for 1-dimensional coordinate.
- R2** : with spring return device for 2-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.

This new model offers long life expectancy, vibration proof, high reliability and safety.



L50JAK-YO-20
(standard)
(2-dimensional coordinate type)

STANDARD SPECIFICATIONS

●Mechanical Performances

Controlling range of operating lever : 2-dimensional coordinate type : Omni-directionally $\pm 18^\circ \sim \pm 22^\circ$, operation from center position.

Operating force : With spring return device (subject to directivity)

X, Y directions : Approx. 0.8 ~ 1.5N (80 ~ 150gf)

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

Vibration : 10 ~ 55Hz 98m/s² (10G)

Shock : 294m/s² (30G)

Life expectancy : Approx. 10,000,000 operations

Mass : 2-dimensional coordinate type : Approx. 280g

●Electrical Performances

Potentiometers mounted : SKSM22E-5

● Applied voltage : 5V.D.C.

● Effective output : Approx. 1.7V ~ 3.3V

● Independent linearity tolerance : $\pm 3\%$

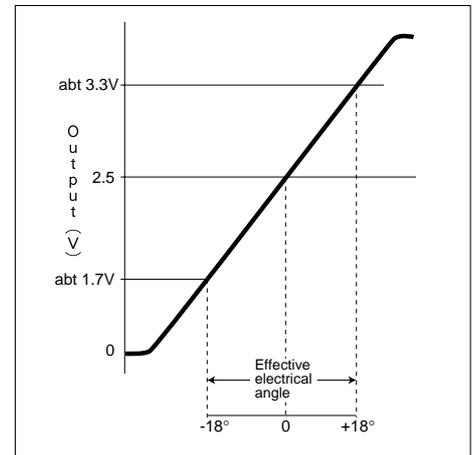
● Load resistance : Over 10K Ω

Resolution : Infinitesimal

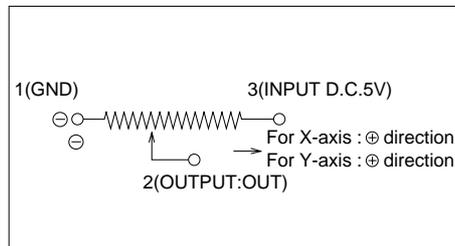
Dielectric strength : 1 minute at 250V.A.C.

Insulation resistance : Over 100M Ω at 250V.D.C.

●Output Characteristic



●Terminal Connection Diagram

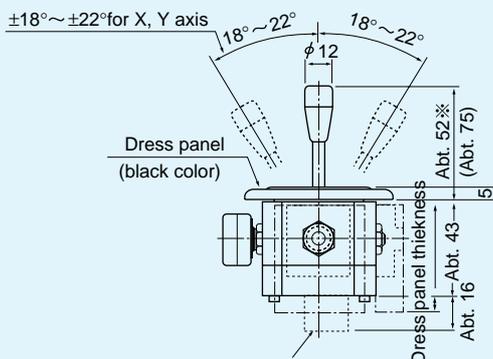
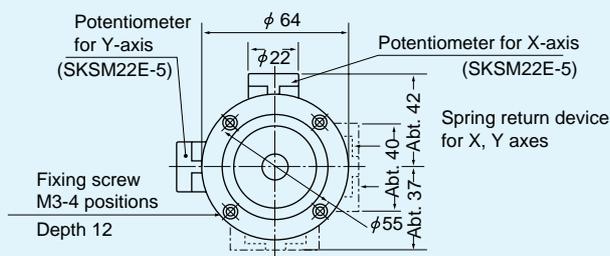


●Special Specifications Available

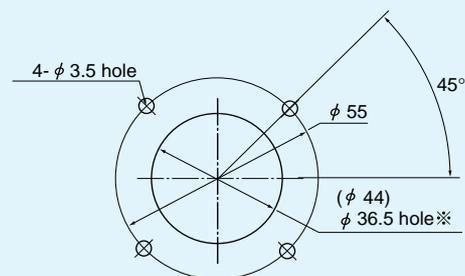
Please see page 41, a table of "Standard and Special Specifications Available".

Another applied voltage is also available.

Standard Dimensions



■Panel Arrangements



Note : In case of with dust proof rubber cover, the dimensions of "※" part changes to $\phi 44$ mm. hole.

Note: 1) In case of with dust-proof rubber cover, the dimensions of dress panel and "※" part dimension shall change to numbers in parentheses.

2) Both type YO and YQ have same operating angle.
 3) 4 pcs. of mounting screws (M3 \times 14) are attached.

(Unit : mm)