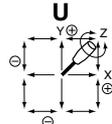
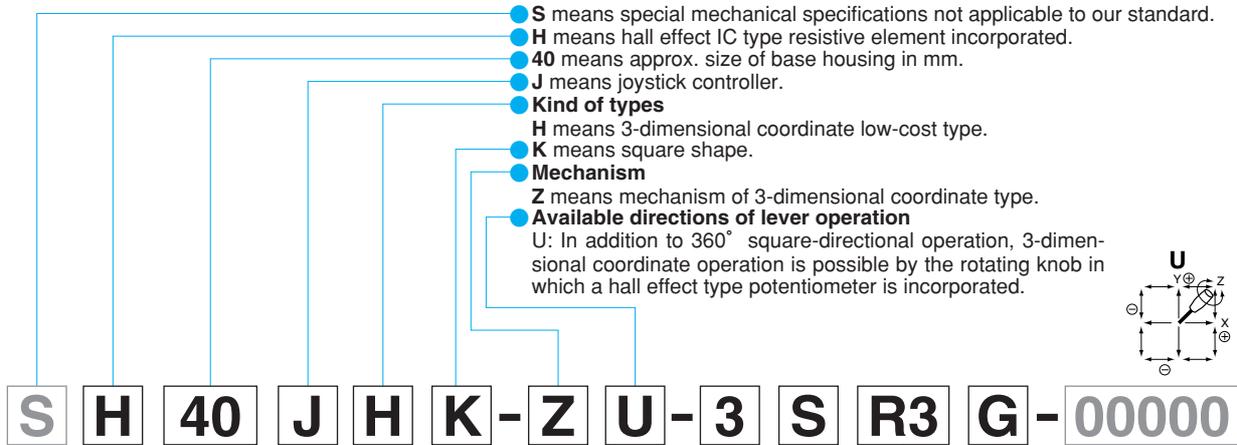


# H40JH

New Product

Potentiometer with a hall effect IC type resistive element

## Nomenclature



**Number of potentiometers to be incorporated**  
 0...no potentiometer incorporated. 1...1 potentiometer incorporated.  
 2...2 potentiometers incorporated. 3...3 potentiometers incorporated.

**Number of output and kind of output characteristic**  
 S...single output. X...dual cross output. P...dual parallel output.

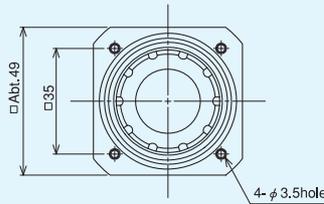
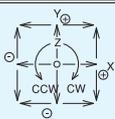
**With spring return device:**  
 R3: with spring return device for 3-dimensional coordinate.

**Mounting accessories:**  
 G : with dust proof rubber cover.

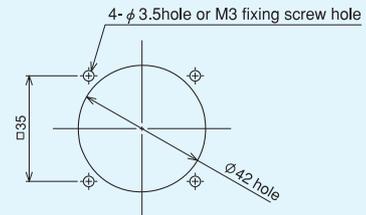
**Special part number:**  
 In case we produce customized products, we add 4-digit or 5-digit branch number.

## Standard Dimensions

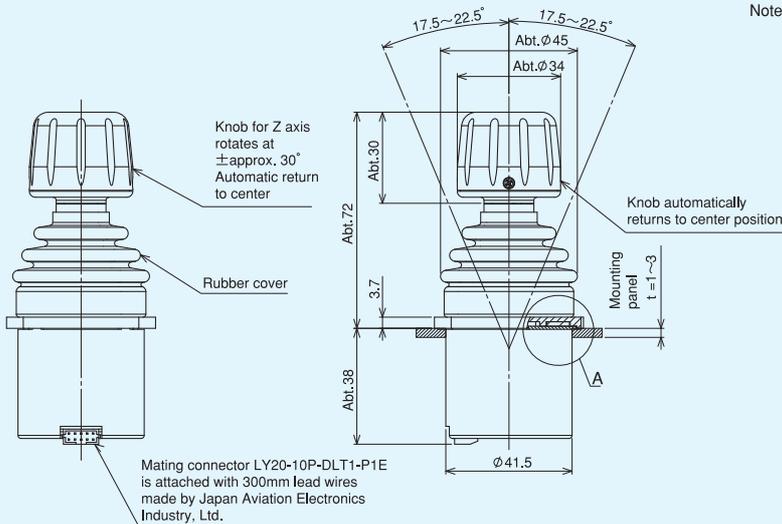
Direction of lever operation(U type)



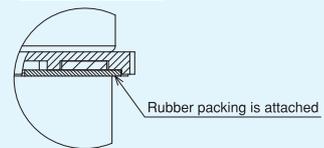
## Panel Arrangements



Note: 4 pcs. of mounting screws(M3X10) are attached.



Detailed cross-section diagram in the area A



(Unit : mm)



**H40JHK-ZU-3SR3G**  
(Standard)

## STANDARD SPECIFICATIONS

### ● Mechanical performance

**Controlling range of operating lever:** 3-dimensional coordinate type.

X and Y directions:  $\pm 17.5^\circ \sim \pm 22.5^\circ$  from center position.

Z direction:  $\pm 27.5^\circ \sim \pm 32.5^\circ$  from center position.

**Operating force**(Standard spring return device : Automatically return to center)

X and Y directions: Approx. 1~4N(100~400gf)

Z direction: Approx. 40~80mN·m(400~800gf·cm)

**Operating temperature range:**  $-20^\circ\text{C} \sim +60^\circ\text{C}$

**Vibration:** 10~55Hz 98m/s<sup>2</sup>

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

**Life expectancy:** X and Y directions: Approx. 5,000,000 operations.

Z directions: Approx. 3,000,000 operations.

**Mass:** Approx. 110g

### ● Electrical performance

**Hall effect IC type resistive element incorporated**

● Applied voltage: 5V  $\pm 10\%$  D.C.

● Effective output: Approx. 0.5V~4.5V

● Electrical rotating angle: X and Y-axis: Approx.  $\pm 20^\circ$  Z-axis: Approx.  $\pm 30^\circ$

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

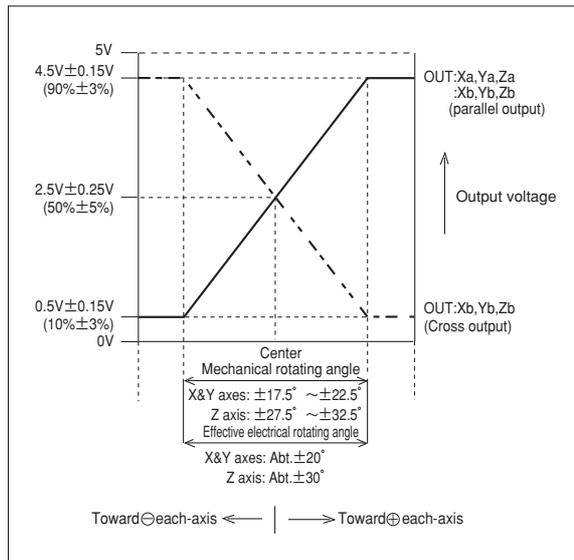
● Load resistance: over 10K $\Omega$

**Dielectric strength:** 1 minute at 500V.A.C.

**Insulation resistance:** Over 1,000M $\Omega$  at 500V.D.C.

**EMC durability:** 100V/m

### ● Output Characteristic



### ● Terminal Connection Diagram

