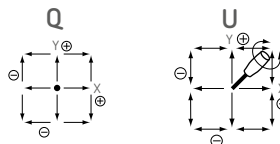




## Model H60JH

- S means special mechanical specifications.
- H means hall effect IC type resistive element incorporated.
- 60 means approx. size of base housing in mm.
- J means joystick controller.
- Kind of types**
- H means 2 dimensional coordinate low-cost type.
- K means square shape.
- Mechanism**
- Y means mechanism of 2-dimensional coordinate type.
- Available directions of lever operation**
- Standard Q type** :360° square-directional operation, 2-dimensional coordinate type
- Special lever operation U type** : In addition to 360° square-directional operation, 3-dimensional coordinate operation is possible.



S H 60 J H K - Y Q - 2 S 0 R2 G - 00000

### Number of potentiometers to be incorporated

0 No potentiometer incorporated. 1 1 potentiometer incorporated.  
2 2 potentiometers incorporated.

### Number of output and kind of output characteristic

S Single output X Dual cross output P Dual parallel output

### Switch function (Using output like switch)

0 No switch function. 1 1 switch function. 2 2 switch function. 3 3 switch function.  
4 4 switch function. 5 5 switch function. 6 6 and over 6 switch function.

### Spring return device:

R2 With spring return device for 2 dimensional coordinate type.

### Mounting accessories:

G: With dust proof rubber cover.

P: With sub-panel for mounting.

### Special part number:

In case we produce customized product, we add 4 or 5-digit branch number.

\*Switch function means using 1 analog output like switch.

■ **Standard specifications**

**Mechanical performance**

**Controlling range of operating lever:**  
2 dimensional coordinate type  
X and Y directions :  $\pm 17.5^\circ \sim \pm 22.5^\circ$  from center position.  
**Operating force :** Spring return device with directive feeling: Automatically return to center  
X and Y directions : Approx. 3N~4.5N(300~450gf)  
**Operating temperature range:** - 20°C~+ 60°C  
**Vibration :** 10~ 55Hz 98m/s<sup>2</sup>  
**Shock :** 294m/s<sup>2</sup> (30G)  
**Life expectancy:** Approx. 5,000,000 operations  
**Mass:** Approx. 300 g

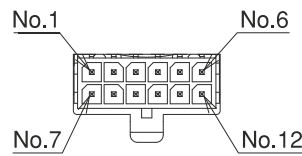
**Electrical performance**

**Hall effect IC type resistive element incorporated**  
- Applied voltage : D.C. 5V $\pm$  10%  
- Effective output : 0.5V~4.5V  
- Electrical rotating angle: Approx.  $\pm 20^\circ$   
- Independent linearity tolerance :  $\pm 3\%$   
- Load resistance : Over 10K $\Omega$   
**Dielectric strength:** 1 minute at 500 V. A.C.  
**Insulation resistance:** Over 1000M $\Omega$  at 500 V. D.C.  
**EMC durability :** 100V/m 80MHz~ 1GHz  
**ESD durability :**  $\pm$  8kV Contact/ $\pm$  15kV Air

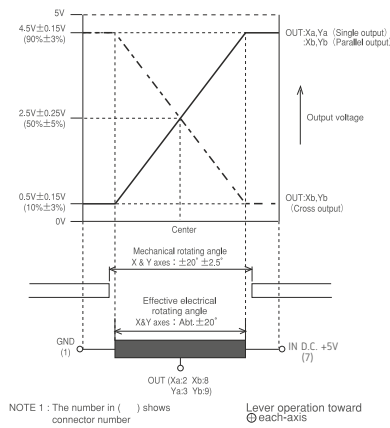
**Special Specifications**

Dual cross and dual parallel output are available.  
Knob for 90J model can be mounted on H60JHK model.

**Terminal Connection Diagram**

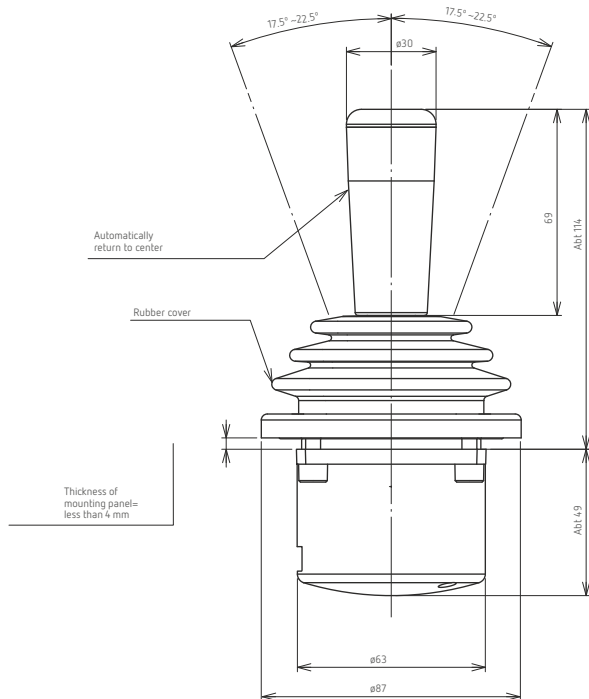


**Output Characteristics**



**H60JHK-YQ-2S0R2G**  
(Standard)  
(2-dimensional coordinate type)

■ **Standard dimensions**



**Panel Arrangements**

