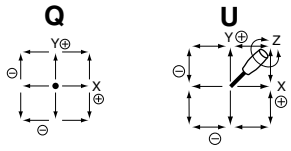
H60JH

New Product

Potentiometer with a hall effect IC type resistive element

Nomenclature

- **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.

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

STANDARD SPECIFICATIONS

● Mechanical performance

Controlling range of operating lever:2 dimensional coordinate type
X and Y directions :±17.5˚～±22.5˚ 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℃～+60℃
Vibration :10～55Hz 98m/s²
Shock: 294m/s² (30G)
Life expectancy: Approx. 5,000,000 operations
Mass: Approx. 300 g

● Electrical performance

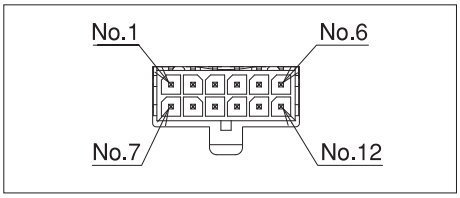
Hall effect IC type resistive element incorporated
- Applied voltage : D.C. 5V±10 %
- Effective output : 0.5V ～ 4.5V
- Electrical rotating angle: Approx. ±20˚
- Independent linearity tolerance : ±3%
- Load resistance : Over 10KΩ

Dielectric strength: 1 minute at 500 V. A.C.
Insulation resistance: Over 1000MΩ at 500 V. D.C.
EMC durability : 100V/m 80MHz～1GHz
ESD durability : ±8kV Contact/±15kV Air

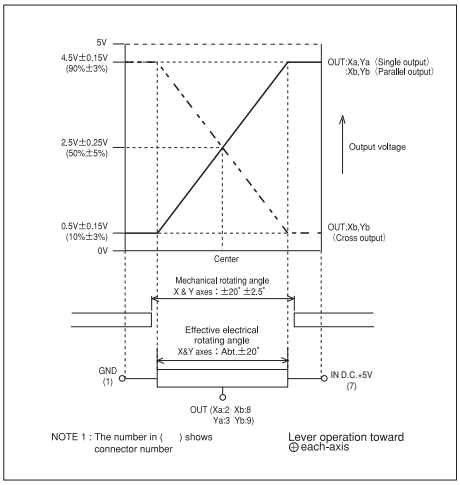
● Special Specifications

Please refer to page 47.
Dual cross and dual parallel output are available.
Knob for 90J model can be mounted on H60JHK model.

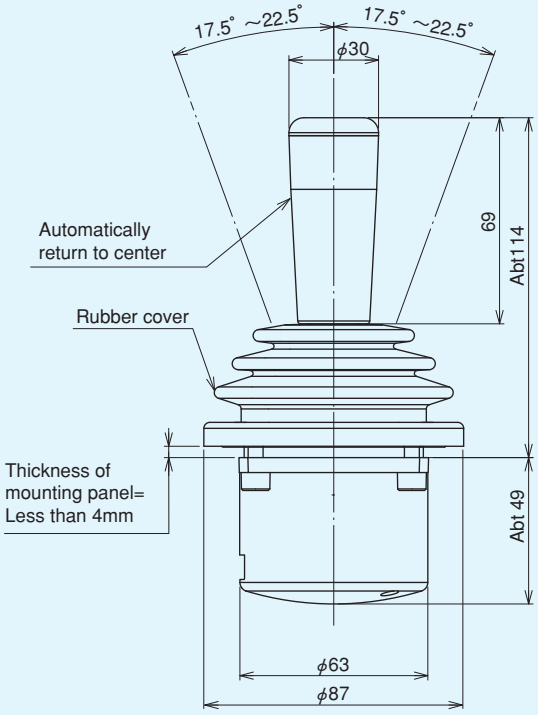
● Terminal Connection Diagram



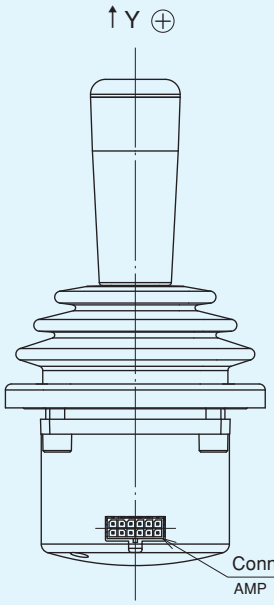
● Output Characteristic

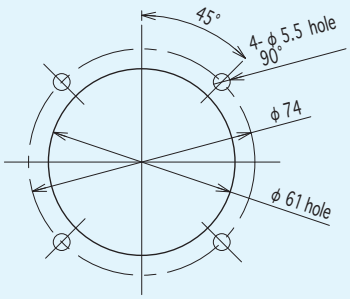


Standard Dimensions



■ Panel Arrangements





Note 1 : 4 pcs. of screw M5×20 are attached.
Note 2 : Mating connector with 300mm long lead wires(AWG22) is not standard. This is option.