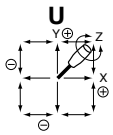
H40JH

New Product

Potentiometer with a hall effect IC type resistive element

Nomenclature

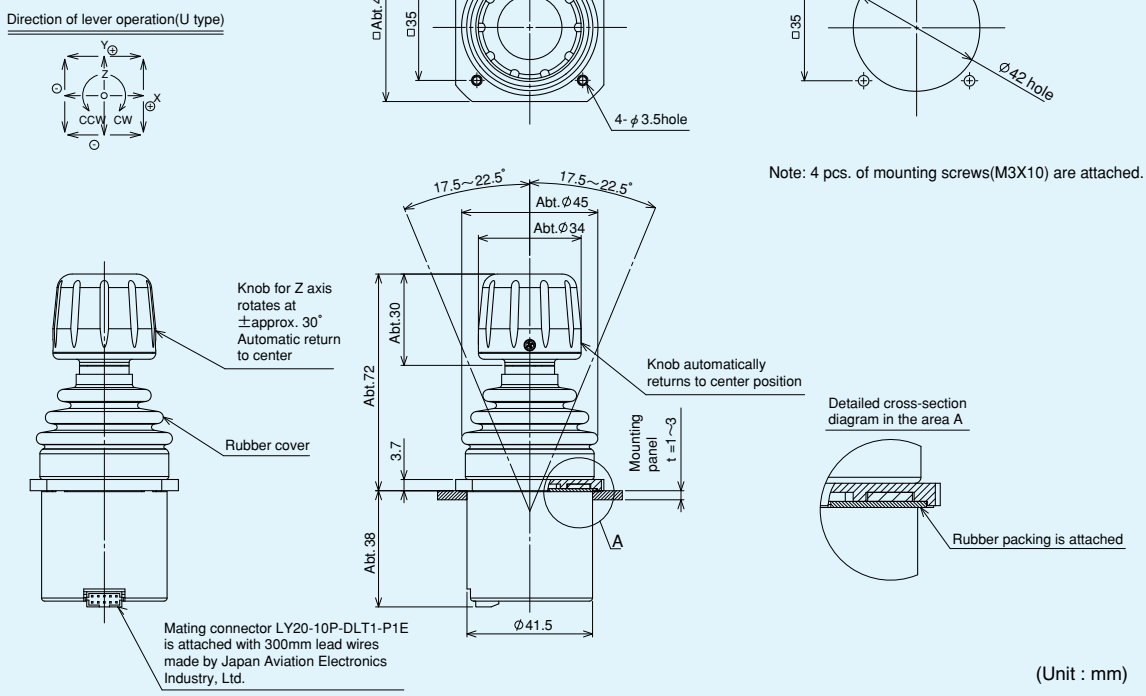
- **S** means special mechanical specifications not applicable to our standard.
- **H** means hall effect IC type resistive element incorporated.
- **40** means approx. size of base housing in mm.
- **J** means joystick controller.
- **Kind of types**
  H means 3-dimensional coordinate low-cost type.
- **K** means square shape.
- **Mechanism**
  Z means mechanism of 3-dimensional coordinate type.
- **Available directions of lever operation**
  U: In addition to 360° square-directional operation, 3-dimensional coordinate operation is possible by the rotating knob in which a hall effect type potentiometer is incorporated.



S	H	40	J	H	K	-	Z	U	-	3	S	R3	G	-	0000

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.
P : with sub-panel for mounting.
Special part number:
In case we produce customized products, we add 4-digit branch number.

Standard Dimensions



■ Panel Arrangements

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

(Unit : mm)

H40JHK-ZU-3SR3G
(Standard)

STANDARD SPECIFICATIONS

Mechanical performance

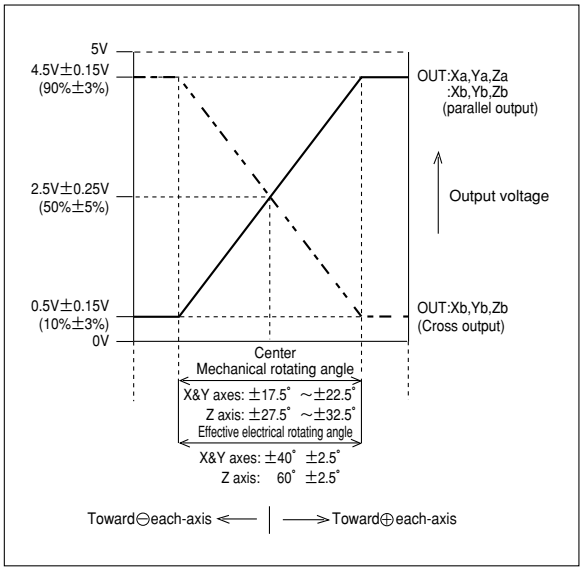
Controlling range of operating lever: 3-dimensional coordinate type.
X and Y directions: ±17.5˚～±22.5˚from center position.
Z direction : ±27.5˚～±32.5˚from center position.
Operating force(Standard spring return device : Automatically return to center)
X and Y directions: Approx.1～2N(100～200gf)
Z direction : Approx.40～60mN･m(400～600gf･cm)
Operating temperature range: −20℃～+60℃
Vibration: 10～55Hz 98m/s²
Shock: 294m/s²
Life expectancy: Approx.2,000,000 operations.
Mass: Approx.110g

Electrical performance

Hall effect IC type resistive element incorporated
- Applied voltage: 5V±10% D.C.
- Effective output: Approx.0.5V～4.5V
- Electrical rotating angle: X and Y-axis: Approx.±20˚ Z-axis: Approx.±30˚
- Independent linearity tolerance: ±3%
- Load resistance: over 10KΩ

Dielectric strength: 1 minute at 500V.A.C.
Insulation resistance: Over 1,000MΩ at 500V.D.C.
EMC durability: 100V/m

Output Characteristic



Terminal Connection Diagram