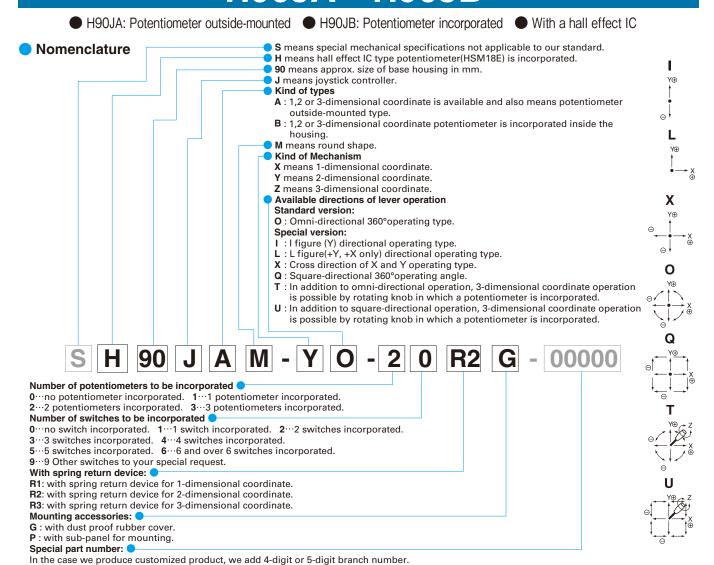
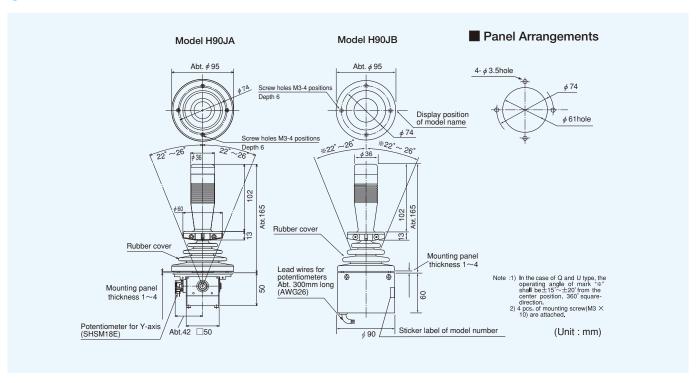


# H90JA · H90JB



#### Standard Dimensions





## **RoHS** Compliant



**H90JAM-YO-20R2G** (Standard 2-dimensional coordinate type)



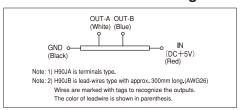
H90JBM-Y0-20R2G (Standard 2-dimensional coordinate type)

#### STANDARD SPECIFICATIONS

#### Mechanical Performance

Controlling range of operating lever	●2-dimensional coordinate type: Omnidirectionally approx.±22°~±26°operation from center position. ●3-dimensional coordinate type: Approx.±45°~±50°operation from center position of knob in addition to the operating range of 2-dimensional coordinate type.
Operating force	Standard spring return device : Automatically return to center (Omni-directional type) X and Y directions: Approx.2 ~ 12N(200 ~ 1200gf) Z direction: Approx.20 ~ 85mN • m(200 ~ 850gf • cm)
Operating temperature range	−20°C∼+65°C
Vibration	10∼55Hz 98m/s²
Shock	294m/s <sup>2</sup>
Mechanical life expectancy	Approx.10,000,000 operations.
Mass	2-dimensional coordinate type: Approx.650g 3-dimensional coordinate type: Approx.750g

#### Terminal Connection Diagram



#### Special Specifications Available

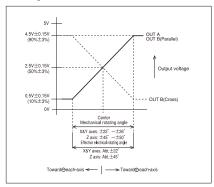
Please see page 55, a table of "Special Specifications Available".

Regarding kind of output characteristic, dual cross output or dual parallel output instead of single output is also available.

## Electrical Performance

Hall effect IC type potentiometer (SHSM18E) incorporated	<ul> <li>Applied voltage: 5V±10% D.C.</li> <li>Effective output: Approx.0.5V~4.5V</li> <li>Electrical rotating angle:         X and Y-axis: Approx.±22°         Z-axis: Approx.±45°     </li> <li>Independent linearity tolerance: ±3%FS</li> <li>Load resistance: over 10KΩ</li> </ul>
Resolution	Infinitesimal
Dielectric strength	1 minute at 250V.A.C.
Insulation resistance	Over $100M\Omega$ at $250V.D.C.$
EMS durability	100V/m(80MHz~1GHz 1KHz sine-wave 80%AM modulation)
ESD durability	±8KV contact ±15KV aerial discharge (Based on IEC61000-4-2).

#### Output Characteristic



### ■ Special knobs Available

The following versions are available to knob for both models H90JAM and H90JBM.

