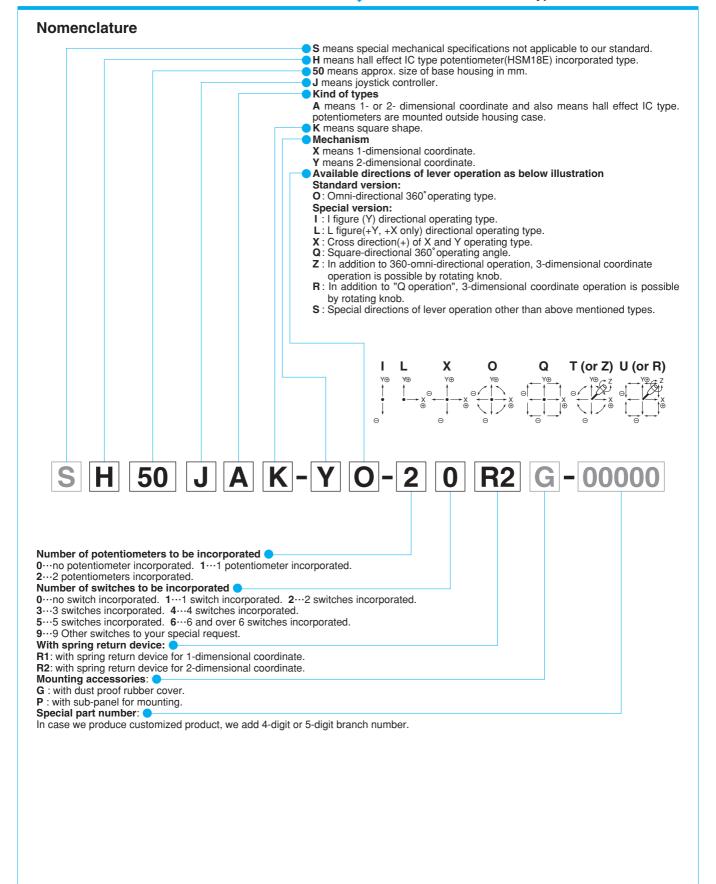


Potentiometer with a hall effect IC type resistive element





This joystick controller offers longer operation life, vibration resistance, high reliability and safety.



H50JAK-YO-20R2 (Standard 2-dimensional coordinate type)

STANDARD SPECIFICATIONS

Mechanical performance

Controlling range of operating lever: 2-dimensional coordinate type.

Omni-directionally approx. \pm 18° \sim \pm 22° operation from center position.

Operating force: With spring return device with

directive feeling.

X and Y directions: Approx.0.8~1.5N(80~150gf) Operating temperature range: -20° C~ $+65^{\circ}$ C

Vibration: 10~55Hz 98m/s²

Shock: 294m/s²

Mechanical life expectancy: Approx.10,000,000 operations.

perations.

Mass: 2-dimensional coordinate type: Approx.280g

Electrical performance

Hall effect IC type potentiometer(SHSM18E) mounted

- Applied voltage: 5V±10% D.C.
- Effective output: Approx.0.5V~4.5V
- Electrical rotating angle: Approx. ±18°
- Independent linearity tolerance: ±3%
- \bullet Load resistance: over 10K $\!\Omega$

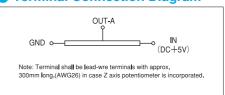
Resolution: Infinitesimal

Dielectric strength: 1 minute at 250V.A.C. Insulation resistance: Over 100M Ω at 250V.D.C. EMS durability: 100V/m(80MHz \sim 1GHz 1KHz sine-

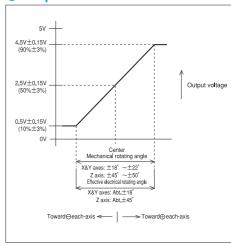
wave 80%AM modulation)

ESD durability: ± 8 KV contact ± 15 KV aerial discharge 10 times at 1second interval, single discharge.

Terminal Connection Diagram



Output Characteristic



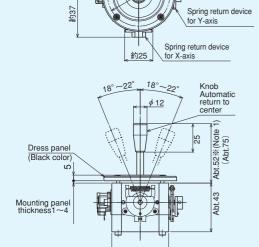
Special Specifications Available

Please see page 47, a table of "Standard and Special Specifications Available".

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



Potentiometer for Y-axis (SHSM18E)

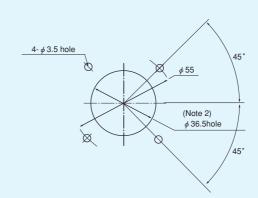


φ 22

Screw holes M3-4 positions

Depth 12

■ Panel Arrangements



Note 1: In case a dust-proof rubber cover is mounted, the shape of dress panel shall change. *Numeral in parentheses shows that of with a dust-proof rubber cover.

Note 2: In case of a dust-proof rubber cover is mounted, it is ϕ 44 hole.

Note 3: 4 pcs. of mounting screws(M3X14) are attached.

(Unit:mm)