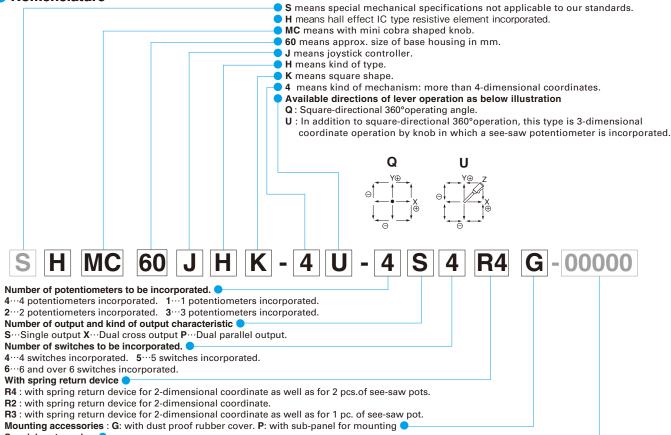


HMC60JH

• For multi functional control with compact sized cobra shaped knob • Potentiometer incorporated type

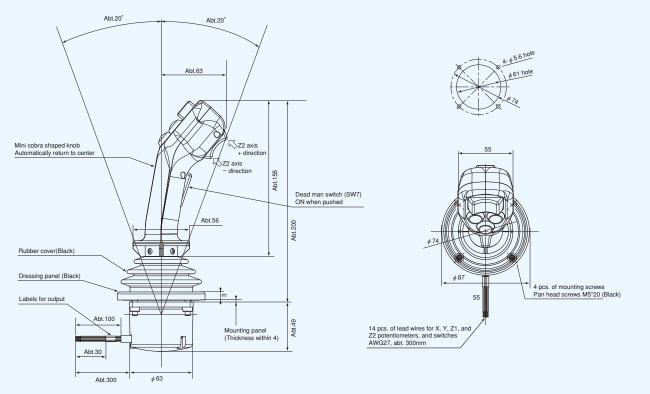
Nomenclature



Special part number

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

Standard Dimensions





RoHS Compliant



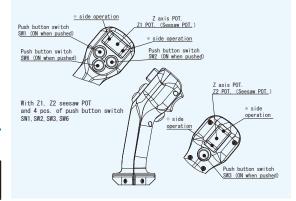
HMC60JHK-4U-4S4B4G

(Z1 and Z2 potentiometers, 3 pieces of push button switch, and 1 dead man switch on the mini cobra shaped knob)

STANDARD SPECIFICATIONS

Mechanical Specifications

Spring return device (Automatically return to center) X & Y directions: Approx. 1.5N~3N
Z direction: Approx. 10mN • m~25mN • m

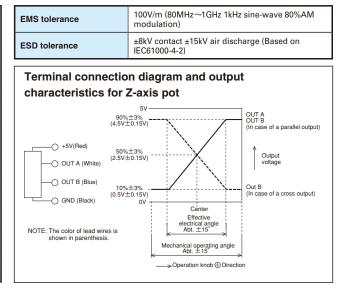


Note 1: The basement is the same as our H60JHK model. For all the specifications excluding the mechanical operating force, please refer to page 41. Note 2: The standard H60JHK model has a Tyco connector. On the contrary, in case of H60JHK with the mini cobra knob, AWG27 lead wires (approx. 300mm long) are coming out from the joystick base in order to mount optional switches and potentiometers.

Potentiometers & Switches Available on Mini Cobra Knob

Specs of Z axis potentiometer

Model No.	SRMP12HYS (Single output) SRMP12HYP (Parallel output) SRMP12HYX (Cross output)
Operating temperature range	-20°C~+60°C
Vibration	10Hz~55Hz 98m/s ²
Shock	294m/s ²
Mechanical life expectancy	Approx. 5,000,000 operations
Mass	Single output type: Approx. 25g Dual output type: Approx. 30g
Applied voltage	D. C. 5V ±10%
Effective output	0.5V~4.5V
Electrical rotating angle	Approx. ±15°(Approx.30°)
Independent linearity tolerance	±3%FS
Load resistance	Over 10kΩ
Dielectric strength	1 minute at A. C. 500V
Insulation resistance	Over 1,000MΩ at D. C. 500V



Specs of push button switch

Model No.	59-111 (Black) Manufactured by ITW Switches
Operating characteristics	Momentary type (SW-ON when pushed)
Rating	100mA , 50V D.C
Dielectric strength	1 minute at A. C. 1,000V
Insulation resistance	Over 1,000MΩ at D. C. 500V
Mechanical life expectancy	Max 500,000 operations

Circuit diagram and wiring connection diagram

SW1 (Yellow) -0

(Gray) ____

(White) -O

(Black) -O

SW2

SW3

SW6

Specs of Dead man switch

Model No.	SEVUOTOTO Manufactured by ALES
Operating characteristics	Momentary type (SW-ON when pushed)
Rating	100mA , 12V D.C
Dielectric strength	1 minute at A. C. 500V
Insulation resistance	Over 100M Ω at D. C. 500V
Mechanical life expectancy	Max. 300,000 operations

Circuit diagram and wiring connection diagram for dead man switch

NOTE: The color of lead wires is shown in parenthesis.

Other Notes

for push button switch

The standard basement is our H60JHK model, but the mini cobra shaped knob is also mounted on (H)50JC, (H)90JA, (H)90JB models on your request.

- When the mini cobra is mounted on (H)50JC model, it should have the sub panel for mounting due to its strength.
- As an option, H25JBM model can be assembled on the mini cobra shaped knob.

O- (Yellow)

0- (Gray)

O- (White)

O- (Black) NOTE: The color of lead wires is shown in parenthesis.

- Colors of lead wires for X and Y axes potentiometers are the same as those of Z axis (shown above).

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



Examples of configurations for mini cobra knob

