


## Dual Axis Thumb Controller - Hall Effect

Series JH25



- Dual Axis
- Hall Effect Sensors
- IP54 Protection Grade
- Redundant Output Option
- Above or Below Panel Mounting
- > 2 mio. operations life
-  RoHS

### Electrical Data (Note 1)

Electrical Travel	approx. 34° (±17° from center)
Applied Voltage	5VDC ±10%
Output Voltage	0.5V ~ 4.5V
Load Resistance	> 10k Ω
Independent Linearity Tolerance	±3%
Resolution	Infinite
Insulation Resistance	> 1000MΩ at 500VDC
Dielectric Strength	500VAC, 1 minute
EMS Durability	100V/m (80MHz~1GHz sine-wave 80% AM modulation)
ESD Durability	±8kV contact, ±15kV aerial discharge (IEC61000-4-2)

### Mechanical Data (Note 1)

Mechanical Travel	Omni-directional, approx. ±17° from center (34° overall)
Operating Force	Spring return device; approx. 1N ~ 2.5N
Operating Temperature	-20°C ~ +60°C
Vibration	10 ~ 55Hz 98m/s <sup>2</sup> (10G)
Shock	30G
Life Expectancy	> 2,000,000 random operations
Protection Grade	IP54
Weight	approx. 23g

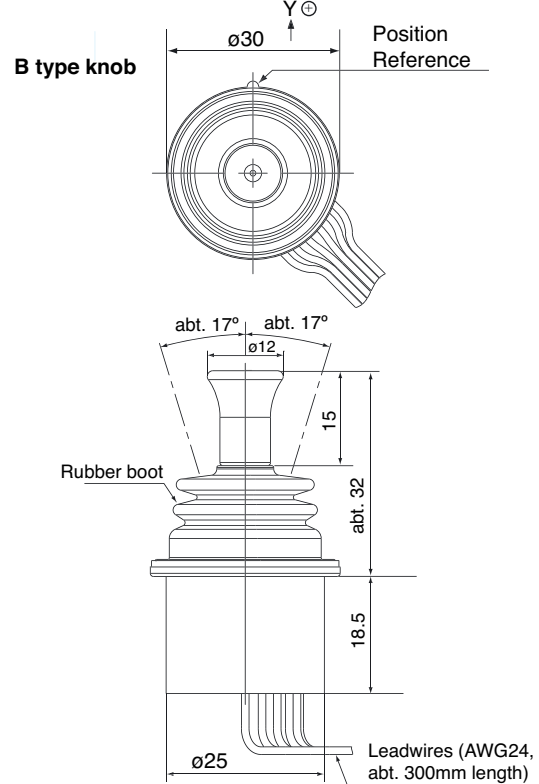
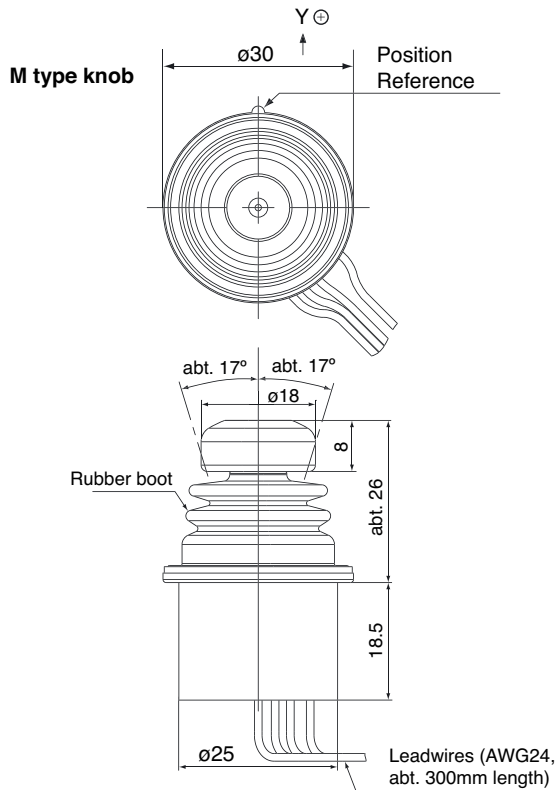
Note 1: Customers should test and verify device performance in any given application. General specifications values are measured at temperatures of +15°C ~ +35°C. Specifications are subject to change without notice.

**Multi-Axis Joystick Controller**

**Series JH25**

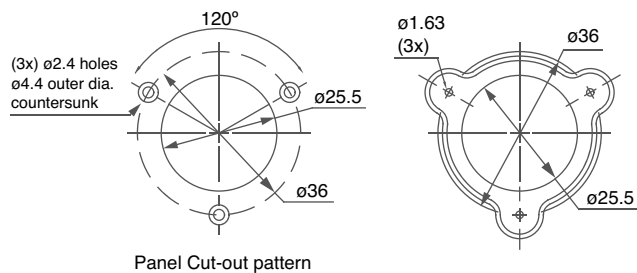
**Basic Dimensions**

Dimensions: mm

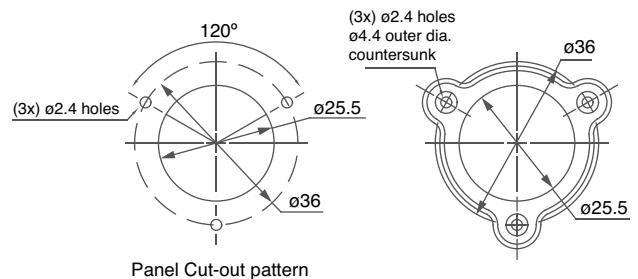


**Panel Arrangements**

**Mounting from under panel**



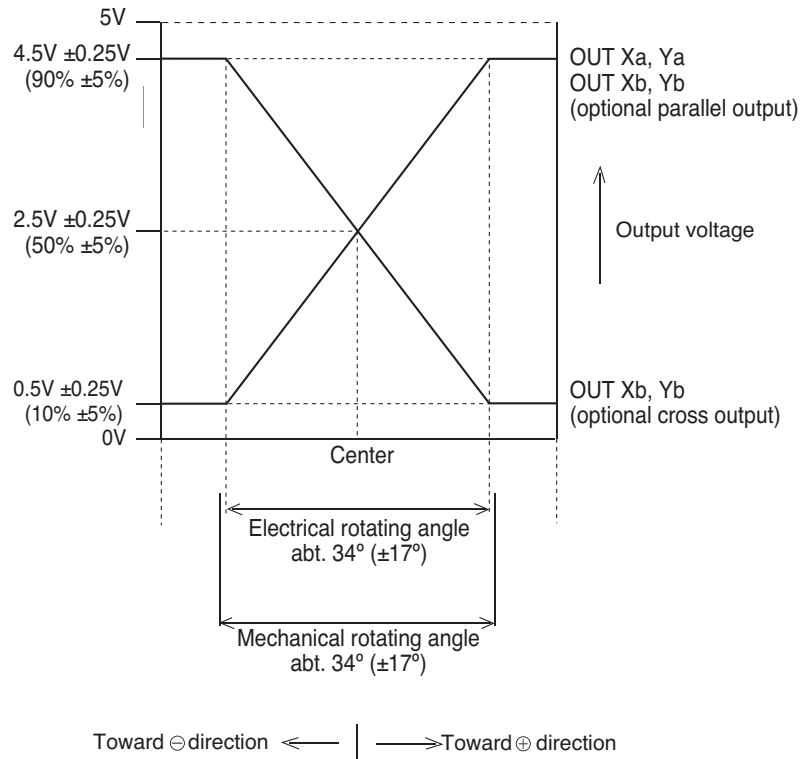
**Mounting from above panel**



**Multi-Axis Joystick Controller**

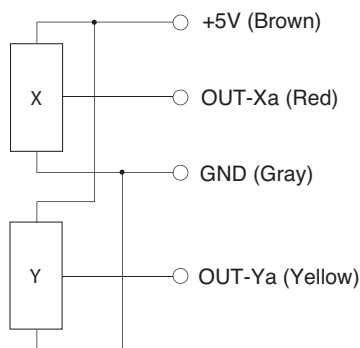
**Series JH25**

**Electrical Output Characteristics of Hall Effect Potentiometer**

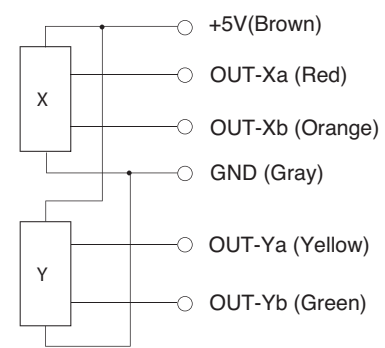


**Terminal Diagram**

**Single Output**



**Parallel Output Cross Output**



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