

### **Multi-Function Joystick Controller**

#### **Series JH60C**



Note: Customers should test and verify device performance in any given application. pecifications are subject to change without notice.

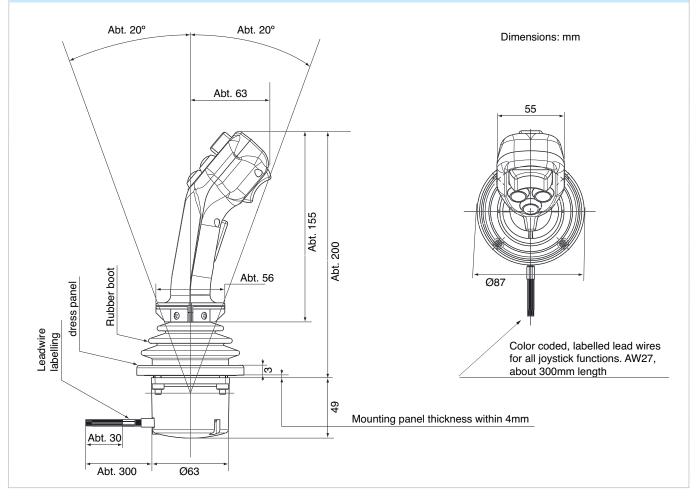
P3 America, Inc. 7696 183A Toll Rd. Unit 7B Leander TX 78641



### Series JH60C

X and Y Axes Mechanical Data (Note 1)	
Mechanical Travel	approx. ±20° from center (40° overall)
Operating Force	Spring return w/guided feel; 3N ~ 4.5N (300 ~ 450gf)
Operating Temperature	-20°C ~ +60°C
Vibration	10 ~ 55Hz 98m/s² (10G)
Shock	30G
Life Expectancy	> 5,000,000 random operations
Protection Grade	IP40
Weight	approx. 800g

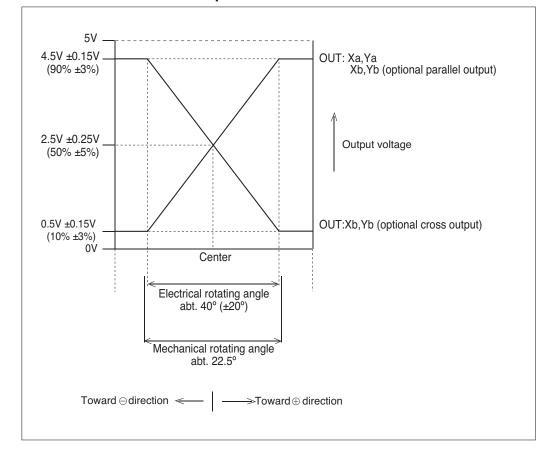
#### **Basic Dimensions**





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Specifications of X and Y Axis Hall Effect Potentiometer (Note 1)	
Electrical Travel	40° (±20° from center)
Load Resistance	over 10kΩ
Independent Linearity Tolerance	±3%
Resolution	Infinite
Applied Voltage	5VDC ±10%
Effective Output	0.5V ~ 4.5V (redundant option)
EMS Durability	100V/m (80MHz~1GHz sine-wave 80% AM modulation)
ESD Durability	±8KV contact ±15KV aerial discharge (IEC61000-4-2)
Dielectric Strength	1 minute at 500VAC
Insulation Resistance	Over 1000M ohms at 500VDC



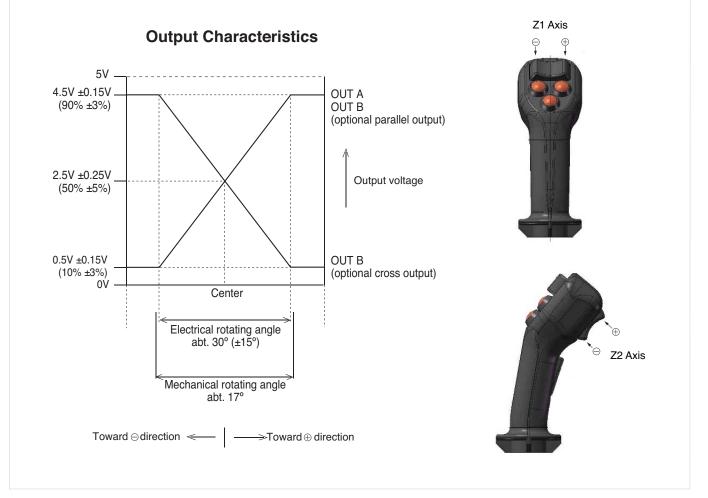
## **Output Characteristics**

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Specifications of Z Axis (see-saw type) Hall Effect Potentiometer (Note 1)	
Electrical Travel	30° (±15° from center)
Operating Force	Spring return; 24mN · m ~ 30mN · m
Return to Center Accuracy	50% ±3%
Load Resistance	over 10kΩ
Independent Linearity Tolerance	±3%
Resolution	Infinite
Applied Voltage	5VDC ±10%
Effective Output	0.5V ~ 4.5V (redundant option)
EMS Durability	100V/m (80MHz~1GHz sine-wave 80% AM modulation)
ESD Durability	±8KV contact ±15KV aerial discharge (IEC61000-4-2)
Dielectric Strength	1 minute at 500VAC
Insulation Resistance	Over 1000M ohms at 500VDC

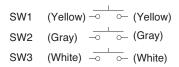




### Series JH60C

Specifications of Pushbutton Switches (Note 1)	
Model Number	59-111 (black) Manufactured by ITW Switches
Operating Characteristics	Momentary type (SW-ON when pushed)
Rating	100mA, 50VDC
Dielectric Strength	1000VAC, 1 minute
Insulation Resistance	> 1000MΩ at 500VDC
Mechanical Life Expectancy	500,000 operations max.

Circuit diagram and wiring connection diagram for push button switch





Specifications of Trigger (Dead Man) Switch (Note 1)	
Model Number	SPVQ810100 Manufactured by ALPS
Operating Characteristics	Momentary type (SW-ON when pushed)
Rating	100mA, 12VDC
Dielectric Strength	500VAC, 1 minute
Insulation Resistance	> 100MΩ at 500VDC
Mechanical Life Expectancy	300,000 operations max.

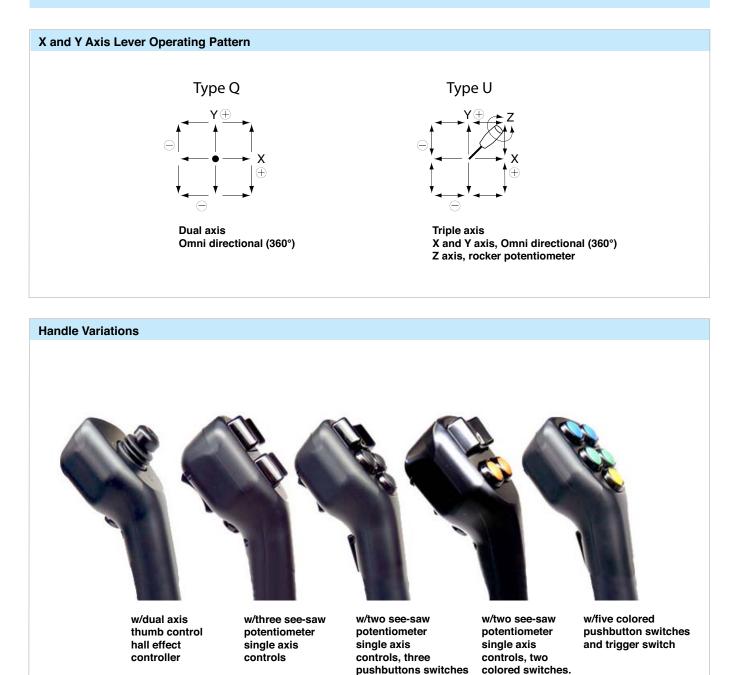
Circuit diagram and wiring connection diagram for dead man switch

SW7 (Red) \_\_\_\_\_ (Red)





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and trigger switch



# Multi-Function Joystick Controller - Hall Effect Potentiometer

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#### **Mounting Details**

