# **Model C90 Full Size Heavy Duty Joystick**



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C90 Series Full Size Heavy Duty Joystick Heavy Duty Joystick Series

#### Features

- One, Two, or Three Axis Joystick (X,Y, Z)
- 6.49" handle height
- 45° deflection angle (±22.5°)
- Hand-grip style knob standard
- Spring return to center
- Circular deflection pattern standard
- 10K ohm precision potentiometer
- Protective rubber boot
- IP65 rating above panel
- Panel mounting bracket

#### Options

- Single Axis (X) Knob Q
- Three Axis (X, Y, Z) Knob T
- Square or Cross (+) limiter plate
- Friction clutch (holds position, replaces spring return)
- Non-standard resistance
- Center detent pots
- Center-tapped pots
- Dual gang pots
- Inductive (non contacting) pots
- Sealed pots
- Dual direction switches
- Single direction switch; Center detect switch
- Push button handle; Tapered handle
- Cannister style base enclosure
- Without Mounting Plate

#### **Electrical Specifications**

Resistance: 10K Ohms Conductive Plastic Resistance Tolerance: ±15% Independent Linearity: ±3.0% Power Rating: (X, Y) 0.2 watt Lever Electrical Angle: (X,Y) - 44° Resolution: Essentially infinite Output Smoothness: Below 0.2% against input voltage Contact Resistance Variation: Below 5% Insulation Resistance: 1000 Meg@500VDC Dielectric Strength: 1 minute @ 500 VAC Max. Wiper Output: 5mA, 1ma rec.

#### **Mechanical Specifications**

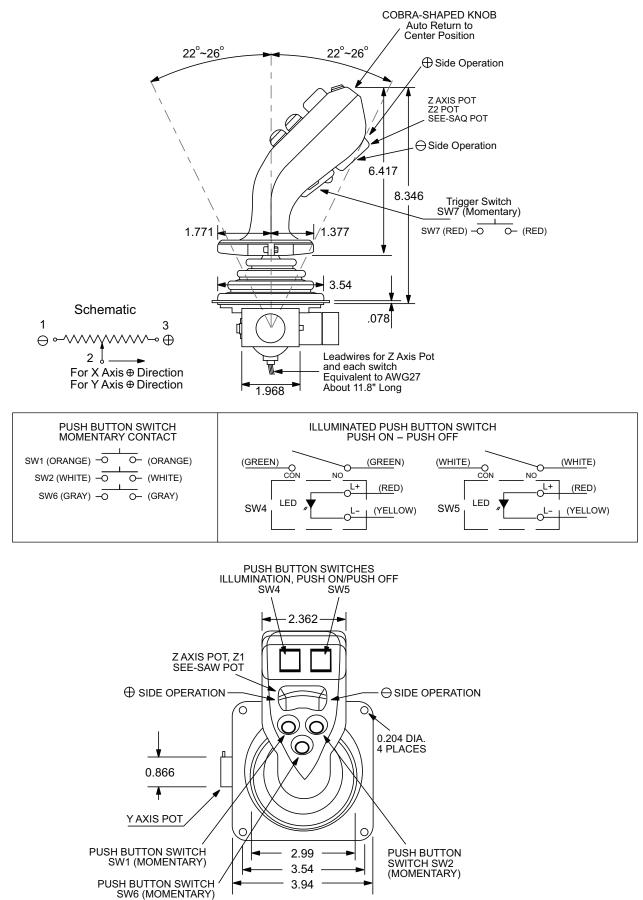
Lever Deflection (X,Y):  $\pm 22^{\circ}$  to  $\pm 26^{\circ}$ Operating Force (X, Y): 7.2 to 43.2 oz-F Housing: Aluminum Knob Material: Hard plastic Weight: Approx 23 oz Service Life: 5,000,000 operations

#### **Environmental Specifications**

Operating Temperature: -20°C to +60°C Rating: IP 65 Above Panel

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### **Ordering Information**

#### Example Part Number: C90-2-Dual-CD-FR-TS

<b>C90</b>	2 (None)	Dual	CD FR	(None)	(None)	TS		
Model C90	Limiter Plate None = Circular deflec no limiter plate (stand Square Cross (+)				Rocker Switches None = Not selec Z1-Z1 = Rocker S <sup>1</sup> Z2-Z2 = Rocker S <sup>1</sup> Z1Z2 = Z1 & Z2 R	ted witches witches		
Axis 1 = Single axis (X) 2 = 2 axis (X,Y) (standard) 3 = 3 axis (X,Y,Z) Switch Single = Single direction Dual = Dual direction s Center = Center detect		rection switche	cch	Rocker Potentiometers: None = Not selected Z1-Z1 = Rocker Potentiometer Z2-Z2 = Rocker Potentiometer Z1Z2 = Z1 & Z2 Rocker Potentiometer		1S = One illumina 2S = Two illumina ES = Extended life	Switch Options TS = Momentary Trigger switch 1S = One illuminated switch 2S = Two illuminated switches ES = Extended life switch - non-illuminated	
			<b>CT</b> = Cente <b>DG</b> = Dual <b>P</b> = Induct <b>SP</b> = Seale <b>CB</b> = Cann	on clutch	cting) pots ers enclosure			

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