

JC series

Finger operated compact controllers •
non-contacting Hall effect technology



DISTINCTIVE FEATURES

Compact: ideal for keyboard integration

Shallow mounting

Low profile handle

One, two or three axis

Pushbutton handle option



ENVIRONMENTAL SPECIFICATIONS

- Operating Temperature: -25 °C to +70 °C (-13 °F to +158 °F)
- Storage Temperature: -40 °C to +70 °C (-40 °F to +158 °F)



SENSOR SPECIFICATIONS

- Sensor: Hall effect
- Supply voltage range: 5.00 VDC
- Center voltage max: 2.50VDC $\pm$ 50mV
- Supply current max: 10mA per axis
- Transient overvoltage: 16V max
- Reverse voltage protection: -10V
- Response time: 40-80uSEC
- Ratiometric output voltage: See configuration options
- Output current: 5mA per axis
- Electrical MTBF 1,000,000 operational (power on) hours



MATERIALS

- Handle: Glass filled nylon
- Body: Glass filled nylon
- Boot: Silicone
- Shaft: 3/16" nickel plated brass
- Main pivot ball: precision ground stainless steel

The company reserves the right to change specifications without notice.



JC series

Finger operated compact controllers • non-contacting Hall effect technology



MECHANICAL SPECIFICATIONS (X/Y AXIS)

- Deflection force: 0.14lbs. @ 27° @ 2 7/8" above pivot point
- Mechanical travel: ± 28° from center
- Mounting: rear panel
- Panel thickness: 0.500" to .187
- Lever action (centering): Spring"

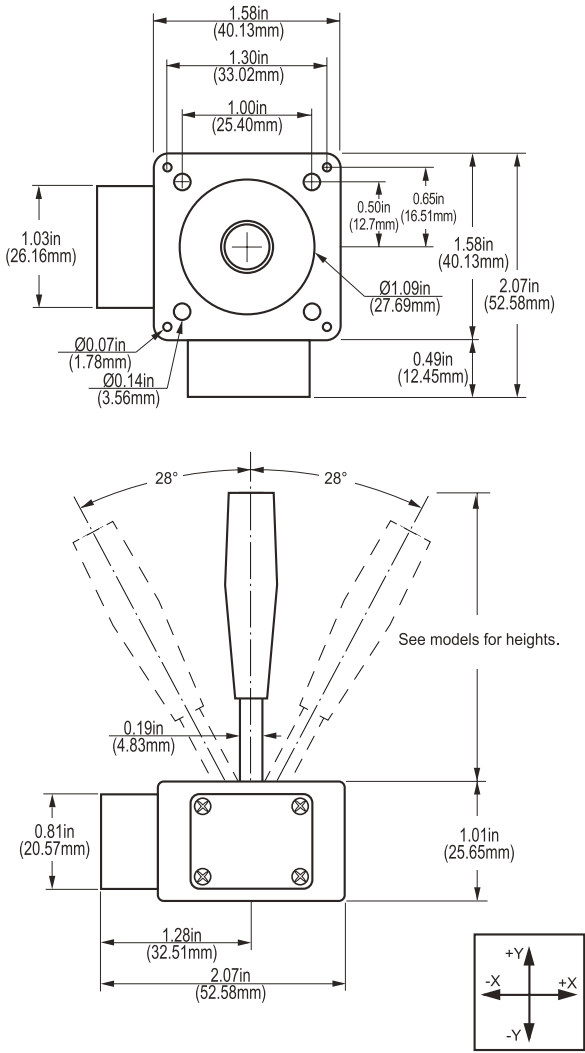


MECHANICAL SPECIFICATIONS (Z AXIS)

- Breakout torque: .80lbf. in
- Operating torque: 1.07lbf.in
- Maximum torque: 22.13lbf.in
- Mechanical rotation: ± 45°
- Handle action: Spring return to center



MOUNTING



WIRING DIAGRAM

DEFAULT WIRE COLOR CODE	
COLOR	FUNCTION
Red	5VDC
Black	GND
Blue	X AXIS
Yellow	Y AXIS
Green	Z AXIS
Orange	Pushbutton 1
Violet	Pushbutton 2
White	Pushbutton common

JC series

Finger operated compact controllers •
non-contacting Hall effect technology



BUILD YOUR PART NUMBER

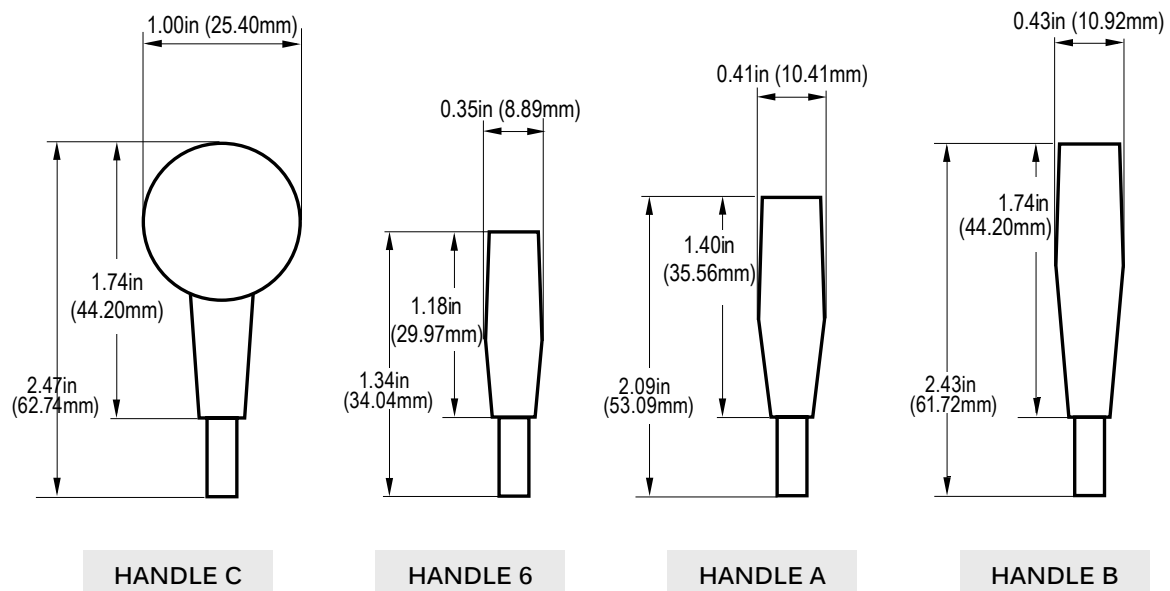
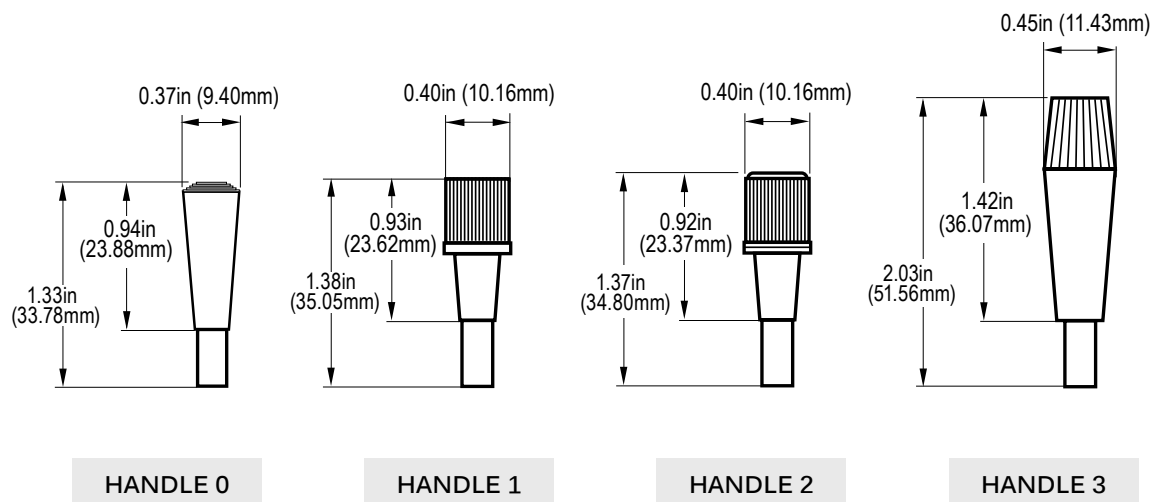
SERIES	MODEL	MOUNTING BEZEL	CENTERING	HANDLE	OUTPUT OPTIONS
JC					
1	2 axis	C Split bezel	0 Spring centering	Model 1: 2 axis handles	0 0V to 5V
2	2 axis with pushbutton	L Rubber boot		0 Tapered handle	1 0.5V to 4.5V
3	3 axis	X No bezel		1 Concave handle	2 0.25V to 4.75V
4	3 axis with pushbuttons	F Square Bezel		2 Flat tipped	3 2V to 3V
				3 Concave tip - long	4 1V to 4V
				C Ball tip	
				6 Straight tip - short	
				A Straight tip - mid	
				B Straight tip - long	
				Model 2: 2 axis handles with pushbuttons	
				5 Pushbutton	
				E Pushbutton	
				G Pushbutton	
				H Pushbutton	
				Model 3: Three axis	
				D 3 axis	
				F 3 axis	
				Model 4: Three axis with pushbuttons	
				J 3 axis and 1 pushbutton	
				L 3 axis and 2 pushbuttons	

JC series

Finger operated compact controllers •
non-contacting Hall effect technology

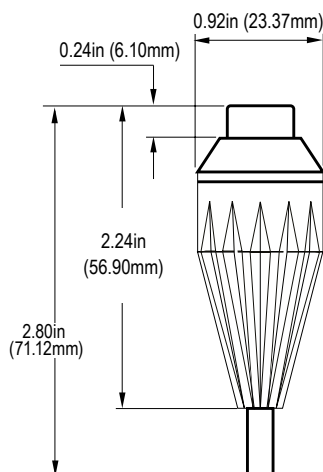


HANDLE OPTIONS

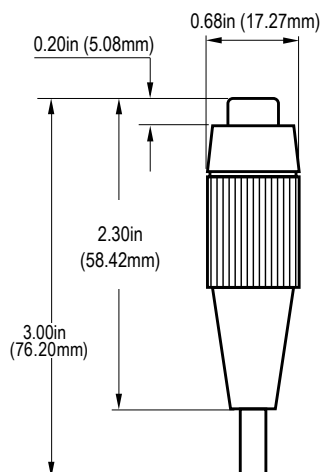




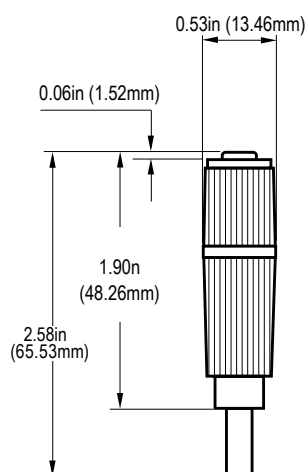
HANDLE OPTIONS (CONTINUED)



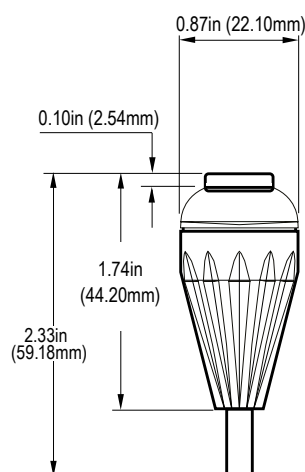
HANDLE 5



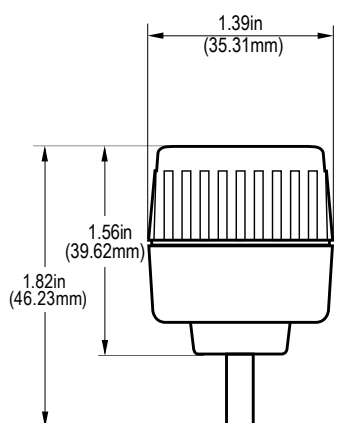
HANDLE E



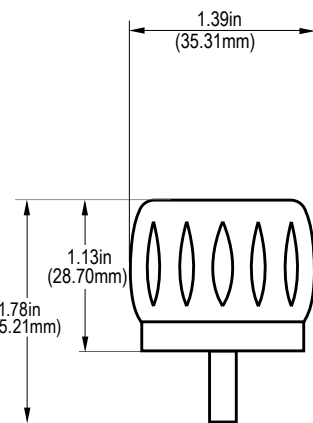
HANDLE G



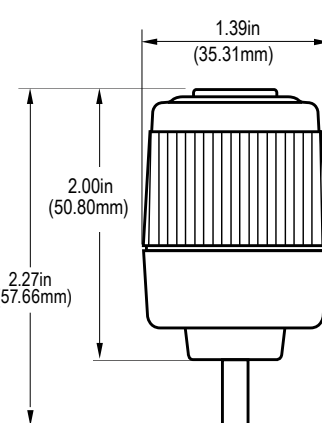
HANDLE H



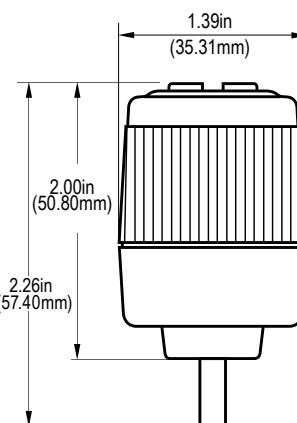
HANDLE D



HANDLE F



HANDLE J



HANDLE L

Drawing are not to scale.

The company reserves the right to change specifications without notice.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apem:](#)

[JC11L000](#) [JC21L0G0](#) [JC31L0D0](#) [JC31L0F0](#) [JC41L0J0](#) [JC41L0L0](#)