

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.



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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
- Endurance : cycled up to 5M

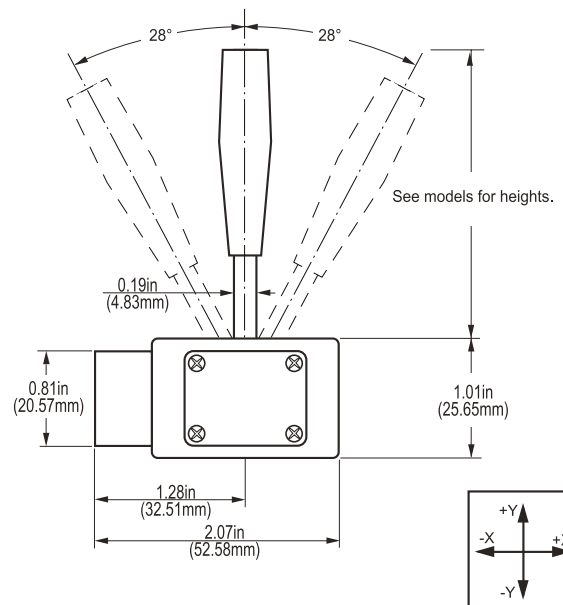
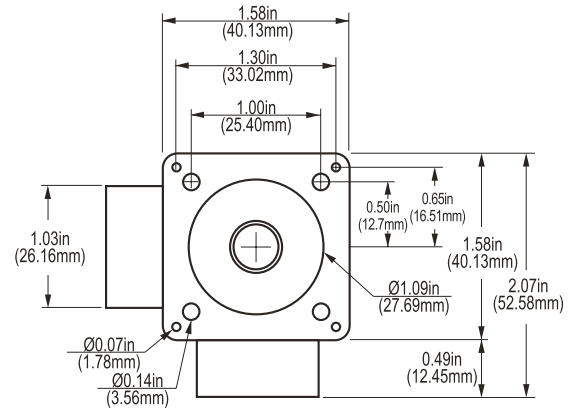


MECHANICAL SPECIFICATIONS (Z AXIS)

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



MOUNTING



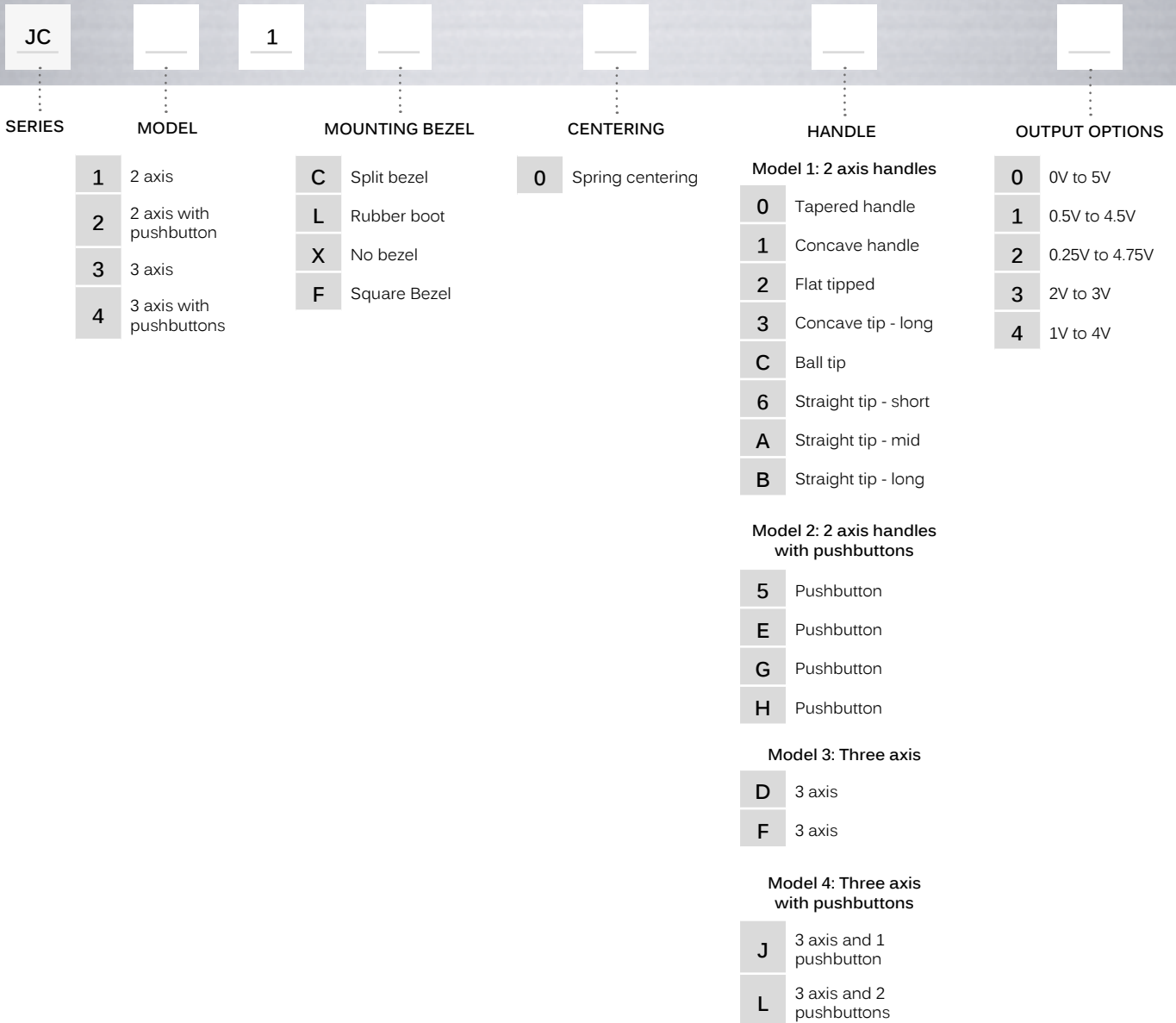
WIRING DIAGRAM

| 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 |

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BUILD YOUR PART NUMBER

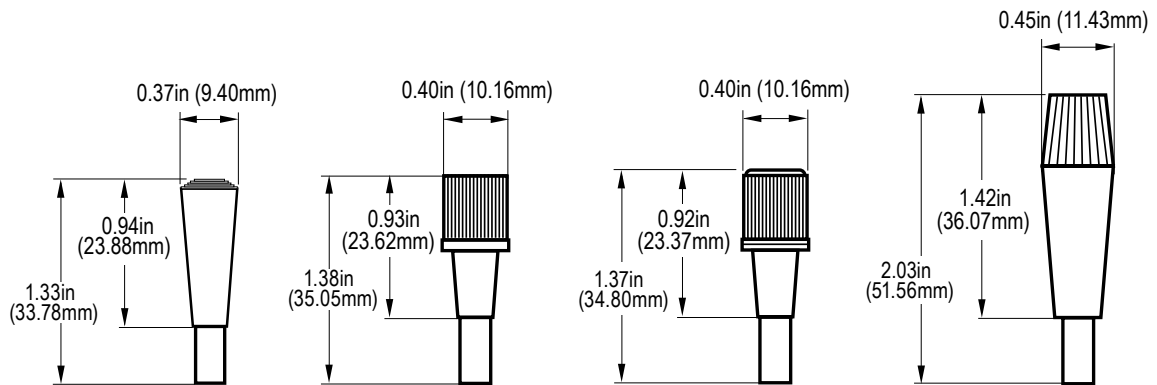


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HANDLE OPTIONS

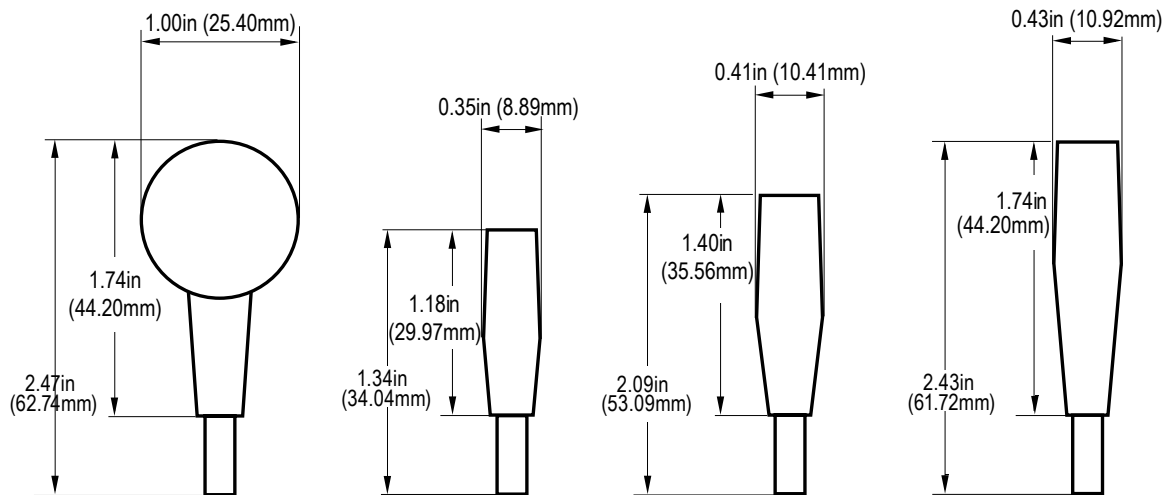


HANDLE 0

HANDLE 1

HANDLE 2

HANDLE 3



HANDLE C

HANDLE 6

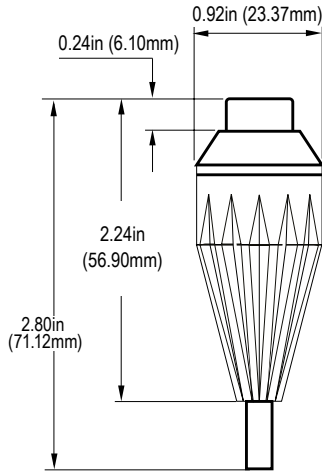
HANDLE A

HANDLE B

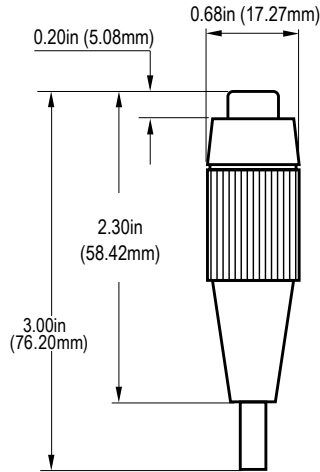
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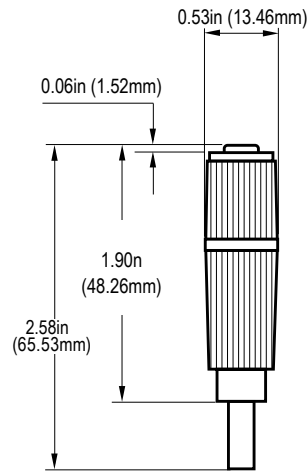
HANDLE OPTIONS (CONTINUED)



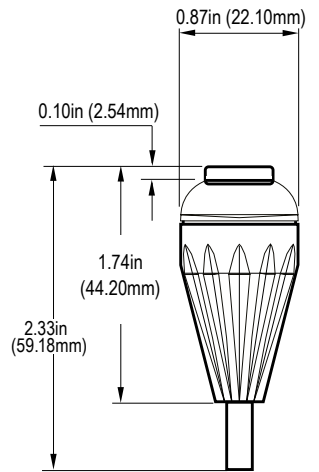
HANDLE 5



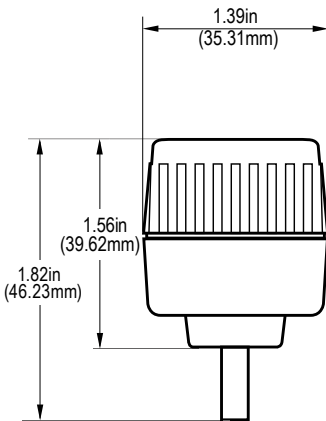
HANDLE E



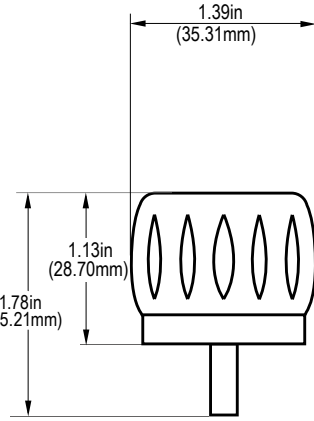
HANDLE G



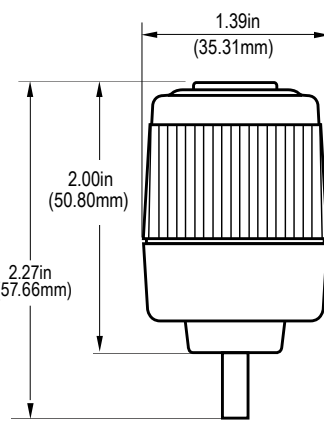
HANDLE H



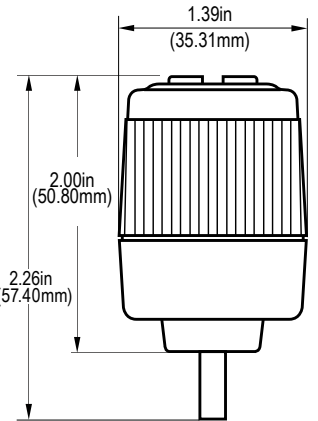
HANDLE D



HANDLE F



HANDLE J



HANDLE L

Drawing are not to scale.

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