

when reliability is critical™

Inductive Industrial Joysticks Reliability Data F1000 Series - 1 Axis and 2 Axes Precision Control Joysticks

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1) Electrical

Power Consumption 10mA @ 5VDC (typical)

25mA @ 24VDC (typical)

Repeatability > 1%

Accuracy > 1% of Full Scale (typical)

> 2% of Full Scale (worst case)

2) Environmental

Operating Temperature 0° to 80° C (standard)

-40° to 80° C (with "D" option)

Storage Temperature -40° to 80° C

Relative Humidity 100% non-condensing (with "Z" option)

3) Sealing

Water Tight NEMA 4 (IP66)

4) Reliability

MTBF Greater than 100,000 hours
Life 10,000,000 random deflections
Optional Push Button Switch 1,000,000 cycles maximum

5) Shock

Peak Value 30g to 50g depending on knob & spring option

Pulse Duration 11 ms
Waveform Half Sine

6) Vibration

Frequency Displacement (inches)

5 - 25 Hz 0.1 25 - 55 Hz 0.03

7) Certifications/Compliance

Compliant with FCC class A and B regulations

"CE" classification option requires the following modifications:

a.) Ferrite bead on ribbon cable (made by CTI Electronics)

b.) Shielded enclosure and shielded cable (made by customer)

ESD rated to 15KV

Restriction of Hazardous Substances Directive or RoHS Compliant (Pb free)

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