



when reliability is critical™

**Inductive Industrial Joysticks Reliability Data
F1000 Series - N82 Knob (3 Axes) Precision Control Joysticks**

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1) Electrical

Power	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

Drip Proof	Z Axis NEMA 12 (IP54), for indoor use.
Water Tight	X&Y Axes NEMA 4 (IP66) Sealing Boot

4) Reliability

MTBF	Greater than 100,000 hours
Life	10,000,000 random deflections

5) Shock

Peak Value	10 g
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:

- Ferrite bead on ribbon cable (made by CTI Electronics)
- Shielded enclosure and shielded cable (made by customer)

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

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