



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%
Calibration	> 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)
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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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